M320

english

This guide describes the operation of the dual band GSM telephones M320.

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Introduction

Thank you for purchasing the M320 dual band mobile telephone. The mobile telephone described in this guide is approved for use on all GSM 900/1800 networks. Some of the messages displayed on your mobile may be different according to your subscription type and/or service provider.

As with all types of radio transceivers this mobile telephone emits electromagnetic waves and complies with international regulations when it is used under normal conditions and in accordance with the safety and warning messages given below.

SAR

THIS M320 PHONE MEETS THE EU REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Before a mobile phone is available for sale to the public, compliance with the European R&TTE directive (1999/5/CE) must be shown. This directive includes as one essential requirement the protection of the health and the safety for the user and any other person.

Your mobile phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the limits for exposure to radiofrequency (RF) energy recommended by The Council of the European Union[1]. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines were developed by independent scientific organisations through periodic and thorough evaluation of scientific studies. The limits include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for mobile phones (CENELEC standard EN 50360: 2000) employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit[2] recommended by The Council of the European Union is 2.0 W/kg. Tests for SAR have been conducted using standard operating positions (with reference to CENELEC standard EN 50361: 2000) with the phone transmitting at its highest certified power level in all tested frequency bands[3]. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a base station antenna, the lower the power output.

The highest SAR value for this M320 model when tested for compliance against the standard was 0.868 W/kg. While there may be differences between the SAR levels of various phones and at various positions, they all meet the EU requirements for RF exposure.

Additional information from the World Health Organization (WHO)

Individuals: Present scientific informa-

1. European recommendation 1999/519/CE

2. The SAR limit for mobile phones used by the public is 2.0 watts/kilogram (W/kg) averaged over ten grams of tissue. The limit incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.
3. The maximum level of GSM emitted power is 250mW at 900 MHz and 125 mW at 1800 MHz according to the GSM standard.

tion does not indicate the need for any special precautions for use of mobile phones. If individuals are concerned, they might choose to limit their own or their children's' RF exposure by limiting the length of calls, or using "hands-free" devices to keep mobile phones away from the head and body.

RF absorbing devices: Scientific evidence does not indicate any need for RF-absorbing covers or other "absorbing devices" on mobile phones. They cannot be justified on health grounds and the effectiveness of many such devices in reducing RF exposure is unproven.

Source: WHO Fact Sheet 193, June 2000.
WHO: www.who.int/peh-emf.

There are a number of independent sources of information available to users including:

Royal Society of Canada: www.rsc.ca

The International Commission on Non-Ionizing Radiation Protection (ICNIRP): www.icnirp.de

The US Food and Drug Administration: www.fda.gov/cdrh/ocd/mobil-phone.html

The World Health Organization: www.who.int/emf

Mitsubishi Electric belongs to the MMF, an international association of radio equipment manufacturers.

The MMF produces information such as this in accordance with its purpose of developing and presenting industry positions to independent research organisations, government and other research bodies.

Mobile Manufacturers Forum
Diamant Building, 80 Blvd. A. Reyers
B-1030 Brussels Belgium
www.mmfai.org

General safety

It is important to follow any special regulations regarding the use of radio equipment, due to the possibility of radio frequency interference.

Please follow the safety advice given below.

Switch off phone and remove the battery when in an aircraft. The use of mobile telephones in an aircraft may endanger the operation of the aircraft, disrupt the cellular mobile phone network and is illegal. Failure to observe this instruction may lead to suspension or denial of mobile telephone services to the offender, or legal action, or both.

Switch off phone when at any refuelling point or near inflammable material.

Switch off phone in hospitals and any other place where medical equipment may be in use.

Respect restrictions on the use of radio equipment in fuel depots, chemical plants or where blasting operations are in progress.

There may be a hazard associated with the operation of phones close to inadequately protected personal medical devices such as hearing aids and pacemakers. Consult your doctor or the manufacturers of the medical device to determine if it is adequately protected.

Operation of phone close to other electronic equipment may also cause interference if the equipment is inadequately protected. Observe any warning signs and manufacturers recommendations.

Vehicle safety

Respect national regulations on the use of mobile telephones in vehicles.
Road safety always comes first! Always give your full attention to driving.

- Do not use a hand-held phone while driving. If you do not have a 'hands free' car kit, stop and park your vehicle safely before using your phone.
- If equipped with a correctly installed vehicle kit allowing 'hands free' operation and you need to make or receive a call, ensure that it is done sensibly and safely. Use pre-programmed numbers where possible and keep calls short and routine.
- If incorrectly installed in a vehicle the operation of mobile telephones can interfere with the correct operation of the vehicle electronics, such as ABS anti-lock brakes or air bags. To avoid such problems ensure that only qualified personnel carry out the installation. Verification of the protection and operation of the vehicle electronics should form part of the installation. If in doubt consult the manufacturer.
- Do not place the phone on the passenger seat or where it could break loose during sudden breaking or a collision. Always use the holder.
- The use of an alert device to operate a vehicle's lights or horn on public roads is not permitted.

Emergency calls

You can make emergency calls by dialling the European standard emergency number **112** even if there is no SIM card in your phone. Emergency calls can even be made if the phone is PIN or electronically locked or call barred. In some countries local emergency numbers can still be used for emergency purposes but the phone may have to contain a valid SIM card.
When making an emergency call remember to give all the necessary information as accurately as possible. The phone may be the only means of communication at the scene of an emergency therefore do not cut off the call until told to do so.

☑ Mobile phones rely on wireless and landline networks which cannot be guaranteed in all conditions. Therefore you should never rely solely on wireless phones for essential emergency communications.

Care and maintenance

This mobile telephone is the product of advanced engineering, design and craftsmanship and should be treated with care. The suggestions below can help you to enjoy this product for many years.

- Do not expose the phone to any extreme environment where the temperature or humidity is high.
- Do not expose or store your mobile in cold temperatures. When the phone warms up after switch on, to its normal temperature, moisture can form inside which can damage the electrical parts.
- Do not attempt to disassemble the phone. There are no user serviceable parts inside.
- Do not expose the phone to water, rain or spilt beverages. It is not waterproof.
- Do not abuse this phone by dropping, knocking or violent shaking. Rough handling can damage it.
- Do not clean the phone with strong chemicals or solvents. Wipe it only with a soft, slightly dampened cloth.

- Do not place the telephone alongside computer discs, credit or travel cards or other magnetic media. The information contained on discs or cards may be affected by the phone.
- Do not connect incompatible products. The use of third party equipment or accessories, not made or authorised by Mitsubishi Electric, invalidates the warranty of your phone and can be a safety risk.
- Do not remove the labels. The numbers on it are important for aftersale service and other related purposes.
- Do contact an authorised service centre in the unlikely event of a fault.

AC/DC adaptor charger

This mobile phone was designed to be used only with the supplied AC/DC charger. Use of any other charger or adaptor invalidates any approval given to this apparatus and may be dangerous.

Battery use

You can charge a battery hundreds of times but gradually it wears out. When the operating time (stand-by and talk time) is noticeably shorter than normal it is time to buy a new battery.

- Do not leave batteries connected to a charger longer than necessary. Overcharging shortens battery life.
- Disconnect battery chargers from the power source when not in use.
- Do not expose batteries to high temperatures or humidity.
- Do not dispose of the batteries in fire. They can explode.
- Avoid putting the batteries into contact with metal objects which can short circuit the battery terminals (e.g. keys, paper clips, coins, chains etc.).
- Do not drop or subject the batteries to strong physical shocks.
- Do not try to disassemble any of the battery packs.
- Use only the recommended battery chargers (see above).
- If the battery terminals become soiled, clean them with a soft cloth.
- Batteries may warm up during charging.

Battery disposal

In compliance with European environmental protection directives, used batteries must be returned to the place of sale, where they are collected free of charge.
Don't throw away your batteries in your household waste.

Your responsibility

This GSM mobile telephone is your responsibility. Please handle it with care and in respect of local regulations. Please keep it in a safe place at all times and out of children reach.
Become familiar with and use the security features to block unauthorised use if your phone and/or SIM card are lost or stolen. Call your service provider immediately to prevent illegal use.
When not in use lock, turn off the phone and remove the battery.

Security codes

The phone and SIM card are delivered to you pre-programmed with codes that protect the phone and SIM card against unauthorised use. A short description of each follows. See Security features, page 39 to change your PIN and phonelock codes.

PIN and PIN2 codes (4-8 digits)

All SIM cards have a PIN (Personal Identity Number). It protects the card against unauthorised use.

Entering the wrong PIN code three times disables the SIM card and the message **SIM Blocked** is then displayed.

Enter PUK: appears.

PUK and PUK2 codes (8 digits).

Please ask your service provider for your PUK code. Use it to unblock a disabled SIM card (see page Security features, page 39).

The PUK2 code is required to unblock the PIN2 code (see above).

Call barring password (4 digits)

This password is used to bar various types of calls, made or received, from the phone (see Call barring password, page 41).

Phonelock code (4 digits)

This code is set to all zeros on delivery. You can change it. Once changed it cannot be identified by the manufacturer over the phone. Please refer to page Phone lock code, page 39 for more details.

We advise you remind of these codes and make yourself familiar with their purpose and operation.

Disposing of waste packaging

The packaging used for this phone is made of recyclable materials and as such should be disposed of in accordance with your national legislation on the protection of the environment.

Please take care to separate the cardboard and plastic elements and to dispose of them in the correct manner.

Using this guide

Please carefully read this user guide. It contains information about your phone and the way that it operates on the network. Some of the features described in this user guide are network dependent. Do not forget to check with your service provider which of these you can use. You may need to take additional subscriptions to activate some features.

Key Actions

To help you quickly use your mobile and this user guide, here is how to use the keypad and the related symbols.

- **OK** key (to validate **OK** on the display.)
- left softkey (to validate the item above: usually an action).
- right softkey (to validate the action above: usually **Exit**).
- right arrow on cursor keys.
- left arrow on cursor keys.
- up arrow on cursor key.
- down arrow on cursor key.
- SEND/CALL key.
- END/PHONE ON or OFF key.

User guide notation

Here is how to follow the instructions of this user guide and use your mobile features.

Select OK

Press on the key to select **OK** (middle of the display).

Press . Select one of the menu items (e.g.: **Settings**).

From the idle screen press the key to access the menu list, scroll up or down to the requested menu item and select **OK** to access the submenu.

Function

To show the softkey plus the linked action.

E.g. 'Select **Read** '.

means Read is displayed (left). Press the key underneath to read the message, the names list, etc.

Select (item from a list)

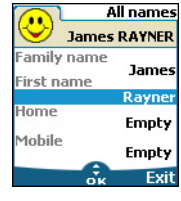
Use and on the cursor key to scroll to the required menu item and validate by selecting **OK** .

E.g. Select **Phone Book**: scroll to the **Phone Book** menu item and press the **OK** key to validate your selection.

Please refer to the 'Getting started with your M320' booklet for keypad use.

Using the Dynamic scroll panels

When scrolling the menu and getting to settings, the following scroll panel type allows to have a clear view of the information to be entered.



❶ The list of the elements to be entered is displayed. Scroll down to the field(s) you want to fill in and select **OK** .

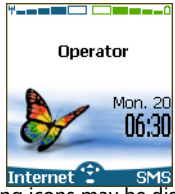
❷ Type the requested information and select **OK** to validate.

❸ Fill in as many fields as necessary and select **Save** to store all the entered information.

☑ The arrow keys displayed at the bottom of the screen show the scrolling possibilities.

Understanding the Graphic Display Indicators (Icons)

Up to four character lines plus one icons line can be displayed on your mobile display.
The icons show the phone state and operational conditions when in use.



The following icons may be displayed:

SIM memory in use

Phone memory in use

Roaming. Is displayed when the phone is connected to a network different from its home network.

Short message service (SMS). Is displayed when one or many short messages were received and are not yet read. flashes when the SMS message box is full and no new message can be stored. SMS availability is network dependent.

Voice mail. Is displayed when a voice mail message has been received and stored by the networks voice mail centre. Voice mail availability is network dependent.

Call diverting. Indicates whether incoming calls are permanently being diverted. Call diverting is network dependent.

Battery level indicator. Is permanently displayed to show the current battery charge level. Five levels are shown: from full (5 bars) to low (one green bar). All bars are empty when the mobile needs recharging.

Arrow keys. These icons are displayed during menu operation to indicate more items in the menu can be reached by pressing , , or .

Line 2. Indicates the second line is in use. Line 2 availability is network and subscription dependent.

Unanswered call. Is displayed when an incoming call was unanswered.

Signal strength level. There are five strength levels. They show the strength of the received signal. The more bars the stronger the signal. If the network cannot be reached no strength level is displayed.

Keypad lock. It indicates keypad lock is on.

Alarm clock.

Vibrator alert.

Silent mode on.

Mute.

Tegic edition mode.

Multitap edition mode.

WAP™ 'live' connection.

WAP™ 'live' connection in security mode.

WAP™ connection with GPRS.

WAP™ connection with GPRS in security mode.

Infrared port. Indicates the infrared port is active. i.e. data can be received from or sent by the infrared port.

GPRS service icon. It indicates data packet services are available.

Inbox icon, indicates new received file(s) in inbox.

Push Messages icon, indicates the reception of new push messages.

Outgoing Call.

Incoming Call.

Active Call.

Multiparty.

Getting Started

Preparing the phone for operation

Please refer to the 'Getting started with your M320' booklet.

Basic Operations

Turning the phone on

1. Press and hold . A tone sounds at mobile activation. When switching the mobile on for the first time may be displayed.
   Enter the date & time settings or select **Exit** if the settings are fine.
2. If your SIM card is PIN protected, **Enter PIN** is displayed.
   Enter the PIN code and select **OK**.

☑ 1. Please also see your 'Getting Started with your M320' booklet.
2. Please refer to Security codes, page 7 and to Security features, page 39 for more details on your PIN and lock codes.

Making a call

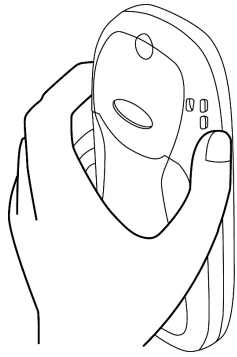
The phone can make and receive calls only when it is switched on, when a valid SIM card is inserted and when it is connected to a GSM network service.

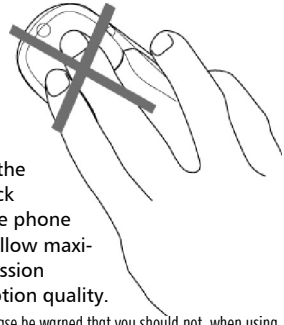
If the keypad is locked you can receive calls but you cannot make any call (see Keypad lock, page 12).

Please refer to the 'Getting started with your M320' booklet for instructions on how to make a call.

Holding your phone

How to hold the phone





Avoid covering the upper back half of the phone so as to allow maximum emission and reception quality.

☑ Please be warned that you should not, when using the hands free mode, put the phone to your ear.

The standby display

When switched on the mobile searches connection with the network. When the connection is established a tone sounds and the network and/or service provider name or logo are displayed together with the time and date, the signal strength and the battery charge level. If the mobile cannot find a valid network the signal strength and the operator name are not displayed.

The four arrows indicate features can be reached via the four arrows on the cursor key.

The oval symbol underneath the arrows shows the Menu can be reached by pressing on the key (below the cursor key).

Internet and **SMS** indicate you can directly access the WAP™ and SMS services by pressing on the softkeys. The features linked to the softkeys in stand by mode depend on your service provider. These keys may not have been programmed. You can then program them by pressing and holding them, thus reaching a list of programmable functions. Choose one by scrolling with the and keys, and validate by selecting OK.

is also displayed if your mobile is connected to a GPRS network[1].

Keypad lock

When activated the keypad lock feature prevents accidental calls or actions being made by while the phone is carried in a pocket or a bag for instance. Incoming calls can however be received and answered. When the call is over the keypad lock is automatically reactivated.

To activate the keypad lock:

Press and hold #. is displayed.

To deactivate the keypad lock:

Select **Unlock** and press #.

Alert tones

Press to directly access the Alert tones control (**Ring**, **Silent**, **Vibrate**, **Vibrate & ring**, **Vibrate then ring**).

Turning the phone off

Press and hold .

A tone sounds to confirm your action. An animated screen is displayed while the mobile switches off.

☑ Do not take the battery out of the mobile without turning the phone off. Data might be lost. Should this happen a first-aid kit symbol is displayed at next activation of the mobile.

Power saver

To allow you to enjoy optimised use of your mobile a power saver screen is automatically displayed after one minute when the phone is not being used. It displays your service provider name and the time.

The power saver does not prevent any operation. You can thus get a call, a SMS, a melody, an image, etc. while the power saver is on.

Pressing any key allows return to an active screen.

1.GPRS availability is operator dependent

Network services

The availability of this menu is network dependent (it may not be available or be named Network services, Network,...).

Your network operator may provide value added services, information and contact phone numbers. These services and phone numbers are stored in your SIM card and appear on the phone menu as they are reachable from the **Network serv.** menu. Please contact your service provider for further details.

Some operators may provide up to two services on the same SIM card. The displayed sub-menus in the **Network serv.** menu may then be named **Applications**, **Services** or **Information.**

Three kinds of services can be registered in this menu:

SIM application tool kit

An automatic way to provide services related to your network. These services are SIM card dependent.

SDN numbers stored in the SIM card

Up to 32 numbers may be stored in the SIM. These numbers cannot be modified or deleted.

Information numbers

A list or a menu allowing to call network or information services offered by the network.

Phone Book

Data can be stored in the phone and in the SIM card memories (=phonebook).
The phone memory can store up to 255 'extended' cards (called 'phonebook cards'). These cards allow to store several types of information: family name, first name, home phone number, cellular phone number, e-mail address, address, company information, voice dialling, group and related icon. The SIM card memory capacity may vary according to your operator or service provider. The SIM memory allows to store one name, one phone number and one voice tag per card. Both the SIM and the phone memories are searched through when reading the available phonebook data.

☑ press ◁ to directly get to the phonebook from the stand by display.

Storing names and telephone numbers

Names and numbers can be stored directly in the phonebook or copied from different sources such as SMS messages, last dialled number list, etc.
It is advisable to store numbers in international format using the '+' prefix instead of '00' so that the numbers can directly be dialled from your home country or from abroad.
There are several ways to store numbers into the phonebooks:

Phone names card

- From the standby display:

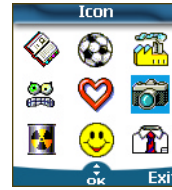
1. Enter the number. Select **Store**.
2. Select **Phone names**.
3. The **Home**, **Work**, **Cellular** or **Fax** list is displayed, thus allowing to choose the number type.
4. Enter the card requested data and select **Save** to store the information.

- Via the menu:

1. Press. Select **Phone Book**.
2. Select **Add name**.
3. Select **Phone names**.
4. Enter the card requested data and select **Save** to store the information.

☑ 1. The Groups field allows to identify the caller's type according to entries you have previously set (see Creating a group of cards page 16).

2. The Icons list allows to store your card with symbols that are then displayed on incoming call (thus showing the caller's category).



SIM names card

- From the standby display,

1. Enter the number. Select **Store**.
2. Select **SIM names**.
3. Fill in the available fields and select **OK** to validate your entries.
4. Select **Save** to store the card information.

- Via the menu,

1. Press. Select **Phone Book**.
2. Select **Add name**.
3. Select **SIM names**.
4. Enter the name and select **OK**.
5. Enter (or confirm) the number and select **OK**.
6. Select **Save** to store the card.

Storing a received number

Numbers stored in the last dialled, received, unanswered call information and SMS message locations can also be stored into the phonebook:

1. With a received call, unanswered call or SMS message select **Options**.
2. Scroll down and select **Numbers** if the number is contained in an SMS. The message number(s) is/are displayed. Choose one if several numbers are available.
3. Select **Store** then follow the above mentioned procedure to create a phone name or a SIM name card.

1. While entering a number selecting Clear once deletes the last character. Holding the Clear key deletes the whole number.

2. The *, +, P (pause), # and _ characters can be stored as part of numbers.

3. You can use _ (wild card spaces) to store numbers. When calling a number bearing wild card spaces select the number from the phonebook, press Ok and type the number corresponding to the wild card spaces (=missing figures).

4. If the SIM card or phone memory are full a warning message is displayed on phonebook selection.

Editing a Phonebook or a SIM name card

From the standby display:

1. Press to get to the phonebook.
2. Scroll down to the card you want to reach and select **OK**.
3. Scroll down to the field(s) you want to modify and amend it/them. Select **Save** to store the changes.

Via the menu:

1. Press . Select **Phone Book**.
2. Select **Read** .
3. Select one of the stored cards.
4. Select **Options** .
5. Select **View** .
6. Scroll down to the field(s) you want to modify and amend it/them. Select **Save** to store the changes.

When modifying a card you can create a voice dialling pattern (see Voice dialling page 18). The voice dialling pattern can only be recorded in edition mode.

Recording a Voice dialling pattern:

1. Press to get to the phonebook.
2. Scroll down to the card you want to reach and select **OK** or select **Options** then select **View** .
3. Scroll down to the **Voice dialling** field and select **OK** . Select **New** to record the voice pattern or **Record** if a voice pattern is already recorded and you want to change it.
   Repeat the name until it is stored (minimum = twice). Pronounce it as clearly as possible and in a quiet environment.
   When the voice patterns match, **Stored** is displayed.

☑ You may have to select the number the voice dialling pattern has to be attached if several numbers are stored on the card. Select Home, Work or Cellular if you have registered several numbers on a phone book card.

Free space in the phonebook

To view the phonebook remaining capacity:

1. Press ⊂⊃. Select **Phone Book**.
2. Select **Statistics** ⊂⊃ to get to the Phone names statistics; press ▽ to get to the SIM card statistics.

☑ If available the free memories in the FDN list are also displayed. Please see Fixed dialling numbers (FDN) page 18 for more information on FDN numbers.

Viewing and calling phonebook numbers

There are two ways of viewing and calling entries stored in the phonebook:

- Directly from the standby display,

1. Press ◁ to display the phonebook list.
2. To access the required name :
   - either scroll up or down using the ▽ and △ keys
   - or press a numeric key to access the different letters associated to the key. E.g: press 2 twice to reach the names starting with letter 'B'.
3. Press ✆.

- Via the menu,

1. Press ⊂⊃. Select **Phone Book**.
2. Select **Read** ⊂⊃ to display the phonebook list, then scroll to the desired number.
3. To access the required name :
   - either scroll up or down using the ▽ and △ keys
   - or press a numeric key to access the different letters associated to the key. E.g: press 2 twice to reach the names starting with letter 'B'.

The list of phonebook entries is displayed in alphabetical order and is stored either in the SIM or in the phone memory.

4. Press ✆.

☑ Selecting Options displays the following menu choice: View, Call, Delete, Copy, Move, Group selection (to display cards per group types), Send by IrDA, Send message to, Send by SMS.

Creating a group of cards

Groups of cards can be defined for the phonebook. This feature allows to gather the cards that belong to a selected group and to play a determined melody on an incoming call from one of the group members.

To create a group:

1. Press ⊂⊃. Select **Phone Book**.
2. Select **Groups**.
3. Choose any blank template **[...]** and select **OK** ⊂⊃. The following items are displayed:

Item	Function
Group name	To type and store a group name.
Melody	To select a melody to be linked to the defined group.

4. Enter or select the requested data. Press **OK** ⊂⊃ to validate.
5. Press **Save** ⊂⊃ to store the defined settings.

Groups characteristics can be modified or deleted (when in the Groups menu, select OK to amend the settings or select Delete to erase the group).

To modify a group:

1. Press . Select **Phone Book**.
2. Select **Groups** .
3. Choose the group to be modified and select **OK** then select the group name and/or the set melody type. Select the new parameters (name/melody).
4. Select **Save** to store your settings.

To select a group when storing a number:

1. Go over the Phone names storage procedure (see Storing names and telephone numbers page 14) and fill in the Phone names card.
2. Scroll down to **Groups** and select **OK**.
3. Select one of the displayed groups from the list.
4. Select **Save** to store your settings.

☑ Groups can only be set for the Phone names cards (not for the SIM names cards).

My Card

My Card is a specific storage location where you can enter personal data. You can easily access My card and send its contents to another device via IrDA or SMS. My Card contents is identical to the phone cards contents except from the Groups and Voice dialling fields.

To enter My Card data set,

1. Press . Select **Phone Book**.
2. Select **My Card** .
3. Select **Edit** and enter the requested information just as in any phone book card (validate each entry by selecting **OK**).
4. Select **Save** to store your card.

To send My Card by IrDA

1. Press . Select **Phone Book**.
2. Select **My Card** .
3. Select **Send by IrDA** . The infrared port automatically opens and sends the card.

To send My Card by SMS

1. Press . Select **Phone Book**.
2. Select **My Card** .
3. Select **Send by SMS** .
4. Enter the mobile number to send the card to or choose it from the **Names list** and select **OK**.

Own number(s) display

The phone can display your main line (Line 1) mobile number, the mobile number for Line 2 (Alternate Line Service) and your data and fax numbers (these are SIM card dependent : contact your service provider for more information). These numbers may be stored in the SIM card. You can also manually enter them.

To view, name and edit your own number(s),

1. Press . Select **Phone Book**.
2. Select **Own numbers**. The mobile number for Line 1 is displayed if it is stored in the SIM card. If not, select **Edit** and type your number and your name in (select **OK** to save the entered information).
3. Scroll down to view or enter Line 2 and your fax numbers.

☑ Line 2, data and Fax numbers can only be reached if your SIM card bears such subscriptions.

Fixed dialling numbers (FDN)

Fixed dialling is a feature that restricts outgoing calls to 'fixed' numbers or 'prefixes' contained in SIM cards that support this feature. When the FDN feature is activated, dialling numbers, diverting calls and sending SMS to numbers not registered in the FDN list is forbidden. The number of FDN entries to be stored depends on the SIM card capacity. Activating the FDN feature or registering numbers into the FDN list is PIN 2 protected (contact your service provider to get the PIN 2 number).
The following menu (Fixed dialling) and operations are only available on your mobile if your SIM card allows fixed dialling feature.

To activate or deactivate FDN operation:

1. Press . Select **Phone Book**.
2. Select **Fixed dialling**. Select **Status** .
3. Select **On** or **Off**. Enter the PIN2 number.
4. Select **OK** to validate.

☑ The Fixed dialling sub-menu may not be available on your mobile. Please contact your service provider for further details.

To view the numbers stored in the FDN list:

1. Press . Select **Phone Book**.
2. Select **Fixed Dialling** .
3. Select **View** and use ▲ or ▼ to view the FDN list entries. Pressing **Options** allows to view, call, delete, copy or move numbers to the phone or SIM card memory, but also send those numbers by IrDA or by SMS.

To enter, edit or delete numbers from the FDN list:

1. Press . Select **Phone Book**.
2. Select **Fixed dialling** .
3. Select **Add new** . Enter PIN2 if necessary. It is now possible to add, edit, delete, copy, move numbers and send them by IrDA or by SMS.

☑ Wild card spaces can be used with the numbers stored in the FDN list. E.g. number +441707 278_ _ 9 allows calls to all numbers from 278009 to 278999 to be dialled. The number can be edited and dialled from the standby display.

Voice dialling

You can make a call by using your voice.
To create a voice pattern:

1. Press . Select **Phone Book**.
2. Select **Voice dialling** .
3. Select **New entry** . All name entries are displayed.
4. Use ▲ or ▼ to choose the card you want to use and press **OK** .
   If several phone numbers are registered on a card (e.g. **Home**, **Work** or **Cellular**) choose one by pressing **OK** .
5. You are then prompted to pronounce the name twice (pronounce it as clearly as possible).
   Stored is displayed when both voice patterns match.

☑ If the voice patterns do not match, Failed is displayed. Go over the whole voice pattern registration procedure again.

To view the voice dialling numbers list:

1. Press . Select **Phone Book**.
2. Select **Voice dialling** .
3. Select **List** .
4. Use or to view the requested entry.
   Press **Options** to listen to the voice pattern (**Play back**), to remove voice tag from the voice dialling list (**Erase**) or to create a new voice pattern (**Record**).

To remove all phone numbers from the voice dialling list:

1. Press . Select **Phone Book**.
2. Select **Voice dialling** .
3. Select **Delete all** .

To call a phone number using a voice pattern:

1. From the stand by display press and hold .
2. Pronounce the name as clearly as possible.
3. The dialled number and an animated icon are then displayed and the call is sent as any call.

Messages

The Short Message Service (SMS) enables to send or receive text messages to or from other mobile phones. You can store, edit and forward messages as well as save any of the numbers they may contain.
These SMS are stored on the phone memory; they may also be stored in the SIM card if they are sent by a service provider.

Reading a received SMS message

When the phone receives an SMS message a new SMS alert tone sounds and is displayed. The message is automatically stored in the phone or in the SIM card. If flashes, it indicates the SIM or the phone memory are full and cannot store any other messages. Delete messages to allow new messages to be delivered.

Press **Read** to read new messages (from the stand by display only).

Reading stored SMS messages

1. Press . Select **Messages**.
2. Select **Inbox** , or **SIM folders** then **Received messages**, to display the message list. Use the arrow keys to scroll up and down and reach the message you want to read.
3. Select **OK** or **Options** / **Read text** to read the message text.

Unread messages are shown by and the text is bold. Messages that were already read are shown by .

Managing received and stored SMS messages

After reading the SMS messages from the Inbox or the SIM card press **Options** to get to: **Delete**, **Delete all**, **Read text**, **Reply**, **Reply(+text)** - to add the original text, **Forward**, (**Move to SIM** if in the **Inbox**) and **Numbers** (to store or call the number(s) contained in the SMS header or text).

Moving messages to SIM

It is possible to move a message from the Inbox or the Outbox to the SIM memory. However, according to the message size, the message may be truncated (the 160 first characters only are moved to the SIM memory). The sending date (for sent messages) and the 'Copy to' addressees are lost when moving the message to the SIM memory.
To move a message to the SIM memory:

1. Press . Select **Messages**.
2. Select **Inbox** or **Outbox** .
3. Choose the message to be moved (and) and select **Options** .
4. Select **Move to SIM** .

Activating or deactivating the message alert tone

Each time a message is received a new SMS alert tone sounds. To activate or deactivate this tone:

1. Press . Select **Messages**.
2. Select **Settings** .
3. Select **Reception Alert** . Select **On** or **Off** .

Preparing the phone to send SMS messages

Before sending your first SMS, the network SMS centre number (obtainable from your service provider) has to be stored:

1. Press . Select **Messages**.
2. Select **Settings** .
3. Select **Sending profiles** .
4. Type the message center number or select a template (if several available) then enter the requested information (operator dependent).
5. Select **Save** to validate.

☑ You may not be allowed to change your sending profile (format and validity period). Please contact your service provider for further details.

The SMS centre number may already be available in your SIM card and may then be automatically displayed.

If you want to choose a Sending profile for your message:

1. Press . Select **Messages**.
2. Select **Settings** .
3. Select **Sending profiles** and choose the profile you want to use (if already stored) or choose one of the empty profiles (**[...]**) .
4. Fill in the following fields:

Fields	Description	Default
Name	To type the profile name.	Profile1
Message centre	To type the centre number.	Defined by operator
Format	To set the message format: text, voice, fax or paging.	Text
Validity period	Time the message remains at the message centre until delivered.	Maximum

5. Select **Save** to validate.

Entering text

Some features and functions (storing names in memory or sending SMS text messages, Office tools, Connectivity, Internet, Settings,...) require you to know how to enter and edit text in the display.

In the display this is indicated by in lower case mode and by in upper case mode. Text and alphabet characters can then be entered or edited directly from the keypad.

There are two methods to type text characters and numbers. The Multitap or Multipress key method and the quicker intuitive method, called T9 text input.

It is the default method to enter text.

Press to swap between the T9 and the Multitap methods. When on T9 mode, is displayed on the upper part of the display to show T9 is the current mode. is displayed on the lower part of the screen to indicate the Multitap text method can be reached by pressing . When on Multitap mode, is displayed on the upper part of the display to show Multitap is the current mode. is displayed on the lower part of the screen to indicate the T9 method can be reached by pressing .

The Multitap/Multipress method

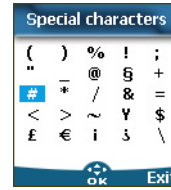
A brief press on a key displays the first character associated with the key and shows the other available characters at the top of the display. Here is the list of the available characters (the available characters list is language dependent):

Key	Character
	Lower case Upper case
①	1 . , - ' @ : ?
②	a b c 2 A B C 2
③	d e f 3 D E F 3
④	g h i 4 G H I 4

Key	Character
5	j k l 5 K L 5
6	m n o 6 M N O 6
7	p q r s 7 P Q R S 7
8	t u v 8 T U V 8
9	w x y z 9 W X Y Z 9
0	0
*	Short press (active in lower case mode only): to swap the next letter from upper to lower case. Long press: to swap all next letters between upper or lower case.
#	Short press: to enter a space. Long press gives access to special characters. ( ) % ! ; " _ @ § + # * / & = < > ~ ¥ $ € i ¿ \
◁ ▷	Short press moves the cursor through the text one place to the left or to the right. Long press moves the cursor to the text beginning or end.S
▽	Swap between Multitap/ Multipress method and T9 text input

To enter text press the key bearing the required character until it appears in the display. Holding the key displays the number corresponding to the key. If you need to use two characters from the same key wait for a few seconds after typing the first character (until the key characters on the upper part of the screen are cleared) or press ▷ before pressing the key again.
Correct mistakes by a short press on **Clear**.

Holding this key deletes all the text.
Use ◁ or ▷ to move the cursor in the text. Holding # allows access to 25 special characters:



To select and insert a character into the text:

1. Move the cursor to the required character (using the △, ▽, ◁ and ▷ keys).
2. Select **OK**.

Example:

To type **Card**,

- Press ▷ and select **Messages**.
- Select **Write new**.
- Fill in the **To** field (see Sending a new SMS message, page 23).
- In the Text field press and hold * until is displayed. Press 2 briefly three times, **C** is displayed.
- Wait for the 2 key available characters (upper part of the display) to disappear, then press and hold * until is displayed. Press 2 once, **a** is displayed.
- Press 7 three times, **r** is displayed.
- Press 3 once, **d** is displayed. The word **Card** is now displayed.

T9 ( ) text entry

A press on ▽ allows swapping between T9 text entry and the Multitap method.

To enter text with T9:

1. Press the key bearing the required letter once only (the requested character may not be displayed first).
2. The active word changes as you type. Type all the word characters up to the end of the word.
3. If the right word is not displayed when all the characters are entered press 0 until you get the required word.
4. If the requested word does not belong to the displayed ones, press ▽ to swap to the multitap method and type the correct letters in.
5. Use ◁ or ▷ to locate the cursor in the text to insert or delete characters.

Tips and Operation

Key	Action
Long press	Numbers
*	Shift - upper/lower case
Clear	Clear or backspace
#	Space
0	Another matching word
1	Smart punctuation
▽	Swap between T9 and Multitap method

Example

To enter **card** in the display:

- Press ○ and select **Messages**.
- Select **Write new** ○.
- Select **Text** ○.
- Press ▽, appears.
- Press 2, **a** appears.
- Press 2, **ca** appears.
- Press 7, **car** appears.
- Press 3, **case** appears.

If the displayed word is not the one you want, press 0 as many times as necessary to view **card**.

- Press ↩ to exit from this example and return to the standby display.

Creating Text models

You can create a set of 10 messages to be used as models. These texts can be of up to 50 characters, which allows adding text when you want to use them. These templates are stored in the mobile memory.

To create text models,

1. Press ○. Select **Messages**.
2. Select **Text models** ○.
3. Choose any blank template (**[...]**) and press **OK** ○.
4. Enter the template text and press **OK** ○.

Editing a text model

1. Press ○. Select **Messages**.
2. Select **Text models** ○.
3. Select the text model to be modified and press **OK** ○.
4. Edit the text and press **OK** ○.

Sending a new SMS message

You can send message texts (up to 918 characters). The standard size for an SMS is 160 characters (your service provider charges you according to the number of SMS used to send your message). The 1 icon (1 = number of SMS used - it is updated while writing your message and shows the number of SMS needed to send your message) is displayed on the screen left corner.

To send SMS from the Menu:.

1. Press . Select **Messages**.
2. Select **Write new** .
3. Press **OK** and, in the **To** field, type the addressee mobile number or press **Names** and select it from your names list. Press **OK** to validate.
4. In the **Text** field type the message text (see Entering text, page 21) or select one of the models (**Models**) and press **OK** .
5. If you want to send the message to several addressees, enter one or several phone numbers/names in the **Copy to** list (up to 4 more addressees) and press **OK** then **Valid** to come back to the previous screen.
6. Select **Valid.** .
7. Select **Send**, **Store & send** or **Store** .
8. A warning message displays the number of short messages needed to send the message if it is more than one. Select **Continu.** if you want to send the message or select **Cancel** if you do not want to send it or if you want to amend your message.

☑ 1. If you have registered an automatic signature the number of characters used is automatically added to the message length.

To send SMS from the stand by display:

1. Press to get to the phonebook.
2. Select **Options** .
3. Scroll down and select **Send Message to**, then proceed as described above.

Signature

You can register a signature to be automatically added to your text messages. The signature is not displayed when typing the message text but it is displayed on message reception by the addressee. The maximum size for the signature is 30 characters. If the message text to be sent reaches 918 characters the signature cannot be added. To register a signature:

1. Press . Select **Messages**.
2. Select **Settings** .
3. Select **Signature** .
4. Press **OK** to select **Insert in message**. Select **Yes** .
5. Select **Text** and type your signature text.
6. Select **Save** to store your signature.

Outbox and SIM folders Emitted messages

The Outbox and SIM folders emitted messages contain unsent draft messages and stored sent messages (delivered or undelivered). These messages can be selected from the outbox or SIM folders menu and can be modified and resent as new SMS messages.

To select one of these messages:

1. Press . Select **Messages**.
2. Select **Outbox** or **SIM folders** then **Emitted messages** and use or to scroll to the required message. Messages either are 'transmitted' ( ) or 'to be sent' ( ).
3. **Press Options** to **Delete**, **Delete all**, **Read text**, **Send**, **Modify**, **Status** (for sent messages only), **Move to SIM** (for outbox messages only), **See all recipients** or **Numbers** (to store or call the number(s) contained in the SMS header or text).

Status request

If a status is requested on a delivered message the date and time of delivery may be shown. If the status is requested on a sent message a status request is sent to the network (must be network supported). The network then answers by sending a status report (SR) back to the phone. Press **OK** to acknowledge it.

To activate the status request:

1. Press . Select **Messages**.
2. Select **Settings** .
3. Select **Message config.** .
4. Select **Delivery report** and select **On** .

To read the sent message, delete or re-send it when receiving the status:

1. Press **Options** . **Read text**, **Delete** or **Send** (to send or re-send the message sent with or without text modification) is displayed.
2. Select the required action .

Storage consumption

The storage status for SMS messages can be consulted.

To know the number of messages stored, the total available space on the Phone memory and on the SIM card:

1. Press . Select **Messages**.
2. Select **Statistics** . The **Phone storage** is displayed. Scroll down to get to the **SIM storage.**
3. Select **Details** for more information on the Phone and SIM stored messages (use and keys to scroll to the desired information: **New**, **Read**, **Sent**, **To send**).

Broadcast - cell broadcast (CB) messages

These messages are broadcast by the networks to GSM users and may provide general information about local area dialling codes, weather reports, traffic, news, etc. Each type of message is numbered and enables to select the type of information to be received.

Up to 5 different types of messages can be programmed into the selection list.

16 standard message types are pre-programmed into the phone to be selected from. New message types can be programmed into the selection list using the 3 digit cell broadcast type number. Contact your service provider for details on the type of messages they may broadcast.

Before you activate the broadcast message service you have to enter one message type at least into the selection list.

Entering a message type in the selection list

1. Press . Select **Messages**.
2. Select **Settings** .
3. Select **Broadcast** .
4. Select **Message types** and choose one of the empty types (**[...]**). Select **OK** .
5. Select **Modify by list** (or **Modify by code** if the type number is known).
6. Select the message type you wish to get and select **Valid** .
7. Select **Save** to store your setting.

Activating / deactivating the broadcast service

1. Press . Select **Messages**.
2. Select **Settings** .
3. Select **Broadcast** .
4. Select **Reception** and choose **On** or **Off** .
5. Select **Save** to store your setting.

Reading broadcast messages

Broadcast messages are displayed while the phone is in standby and are deleted while in conversation or operating the menu. A message can be up to 93 characters and may be displayed on several pages.

Options on message display

Press **Exit** to clear the CB message displayed. Press to dial the number contained in the message.
Press **Options** to display the following menu:

Option	Action
Delete	To delete the current message
Delete All	To delete all the received CB messages
Numbers	To display all phone numbers contained in the message text and dial or store them in the scratchpad if required.
Broadcast Off	To deactivate cell broadcast.

Activating/Deactivating the alert tone

An alert tone can be set to beep every time a new or updated broadcast message is received.

1. Press . Select **Messages**.
2. Select **Settings** .
3. Select **Broadcast** .
4. Select **Reception alert** and choose **On** or **Off** .

Broadcast language

All the broadcast messages can be displayed in several languages.
To select a language:

1. Press . Select **Messages**.
2. Select **Settings** .
3. Select **Broadcast** .
4. Select **Language** and choose one of the available languages.

☑ The availability of this feature is network dependent.

Calls & Times

Access the **Calls & Times** menu to check the details of individual incoming and outgoing calls, the duration of the latest call or the total call time for all sent and received calls.

Calls log

This feature stores details (identity, time and date and call duration) on the latest 10 numbers dialled, the latest 10 unanswered calls and the latest 10 received calls. The calls log are common to Line 1 and Line 2.

1. Press . Select **Calls & Times**.
2. Select **Calls log** .
3. Select **Last dial**, **Unanswered** or **Received** .
4. Use or to scroll through the calls list.

The latest dialled or received number is displayed first. For unanswered and received calls the caller's name is displayed if it is registered in one of the phonebooks (if not the phone number is displayed). If your subscription does not bear Caller Line Identification (CLI) or if the caller has with held their number **Unknown number** is displayed.

Press to call the selected number.

Press **Options** to get to the following menu:

Item	Action
Store	To store the number into a phonebook.
Delete	To delete the entry.
Delete all	To delete all the entries.
Edit	To edit the displayed number.
Details	To view the name, number, time and date and call duration of the selected number.
Call	To call the selected number.
Send SMS	To send an SMS message to the selected phone number.

Use or to select the required option and follow the displayed instructions.

☑ Press the key from the stand by display to get direct access to the 10 last dialled numbers.

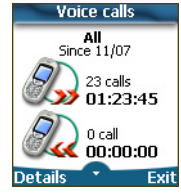
Call timers

The **Call timers** stores time information on all voice, Internet, Modem and GPRS calls for Line 1 and Line 2.

The **Details** sub-menu stores time information on calls made and received via the home network and while roaming (national and international networks).

1. Press . Select **Calls & Times**.
2. Select **Call timers** .
3. Select **Show** .
4. If the call timers were reset (see Call timer - reset, page 28) the date of the latest counter reset is displayed.
   Use or to view all the timer information.

The call type and the accumulated times of outgoing and incoming calls are displayed.



Selecting **Details** displays information on roaming and international calls etc.

☑ If Line 2 is active too 'All Calls' for Line 1 and Line 2 will be displayed separately.

Balance information (subscription dependent)

This service may be supplied by your service provider. It allows to get the remaining airtime balance on your phone line.

Please contact your service provider for more information. If your subscription allows access to this information:

1. Press . Select **Calls & Times**.
2. Select **Call timers** .
3. Select **Balance information** .
4. Select **Call** or **Set number** .

When selecting **Call**, if the balance information number is already stored, a call is sent to the balance information centre. If no number is stored select **Set number** and type it in. Press **OK** to store the number, then select **Call** to call the information centre number.

Reminder - Call duration

You can set a duration reminder to regularly beep to remind you of the time spent on your call. The occurence can be any multiple of 1 minute (up to 59 mins).

1. Press . Select **Calls & Times**.
2. Select **Call timers** .
3. Select **Reminder** .
4. Select **On** to activate the Call timer.
5. Type the call timer interval (e.g.: 2 = a beep is played every 2 minutes while in conversation).
6. Press **OK** to validate the entry.

Call timer - reset

This feature allows to reset the call timers. The 4 digit lock code is needed to reset the call timers (default lock code: '0000').

1. Press . Select **Calls & Times**.
2. Select **Call timers** .
3. Select **Reset** .
4. Select **Yes** .
5. Enter the phone lock code and press **OK** .

Call costs - management

Some service providers offer an Advice of Charge (AoC) subscription service allowing to get the last call cost, the total calls cost and the remaining balance on your account (after you have set a 'credit limit').

To display these you first have to set a currency value and to enter an average cost per unit (only calls units are displayed if the cost information is not stored).

To set a currency value per unit:

1. Press . Select **Calls & Times**.
2. Select **Call costs** .
3. Select **Display cost type** .
4. Select **Currency** . The current currency unit value is displayed.
5. Select **Modify** . Enter your PIN 2 code and press **OK** .
6. Enter the currency name (up to 4 letters). Press **OK** to validate.

7. Enter the unit cost (e.g.: 0.15 Euro per minute). Press **OK** to validate.

To set call cost type to units:

1. Press . Select **Calls & Times**.
2. Select **Call costs** .
3. Select **Display cost type** .
4. Select **Units** .

☑ When the cost type is set to units the credit limit and the remaining credit are shown in units.

Setting the credit limit (subscription dependent)

You may also be able to set a credit limit to your calls. When the credit limit is reached no more chargeable outgoing or incoming call is allowed. You can however still make emergency calls.
The PIN2 code is needed to set the credit limit.

1. Press . Select **Calls & Times**.
2. Select **Call costs** .
3. Select **Credit limit** . The display shows the current set credit limit.
4. Select **Edit** . Enter your PIN 2 code and press **OK** .
5. Enter the credit limit (use # to type a decimal point for curencies). Press **OK** to validate.

☑ When a credit limit is set the selection from the 'Credit limit' display is Edit or Set no limit.

Show costs

1. Press . Select **Calls & Times**.
2. Select **Call costs** .
3. Select **Show** .
4. Use or to display the **Last Call** and **All Calls** or show the **Remaining credits**.

☑ The remaining credit is shown in either units or currency as set by Cost Type menu above.

Call costs - resetting all costs to zero

To reset all call costs to zero:

1. Press . Select **Calls & Times**.
2. Select **Call costs** .
3. Select **Reset** .
4. Select **Yes** . Enter the PIN 2 number and press **OK** .

Alternate line service - selecting line 2 (subscription dependent)

Some operators support the use of a second line. You may then have two mobile phone numbers (e.g. a business line plus a personal line). To use them you need to select the line to be used.

1. Press . Select **Calls & Times**.
2. Select **Line selection**. The current line selection is displayed.
3. Use or to scroll to the required line. Press **OK** to validate.

☑ 1. The Line selection sub-menu may not be available on your mobile. Please contact your service provider to get further details on this service.

2. Line 1 and Line 2 can be named (Office and Home for instance). Refer to the Own Number menu (see Own number(s) display, page 17 for details). Whichever line is selected to send calls, incoming calls can still be received on either line.

Settings

Tones

Alert mode

You can set the ring, alert and alarm tones via the **Alert tones** menu.

☑ If you choose the 'Vibrate' or 'Vibrate then ring' option, the vibrating option replaces all the alert and alarm tones.

To modify the alert mode,

1. Press . Select **Settings**.
2. Select **Tones**.
3. Select **Alert tones**.
4. Choose one of the available settings (**Ring**, **Silent**, **Vibrate**, **Vibrate & ring** or **Vibrate then ring**) and press **OK** to validate.

☑ You can access the Alert tones menu directly from the standby display by pressing .

If you select Ring and the ring tone volume is off the icon is displayed on the stand by display.

When the phone is connected to either the Desk Top Charger, HF kit, CLA or AC adaptor the vibrator mode selection is temporarily inhibited and the phone rings instead of vibrating.

Ring tone selection

You can choose a melody from the available ring tones stored in the phone but also from melodies you have previously composed (see Melody composer below) or downloaded and stored.

When scrolling up or down wait for a few seconds to be able to hear the selected melody:

1. Press . Select **Settings**.
2. Select **Tones**.
3. Select **Melodies**.
4. Select **Standard/Line 1**, **Line 2** (if you have a Line 2 subscription) or **Alarm**.
5. Scroll up or down to listen to the different ring tones. Choose one by pressing .

Downloaded melodies

You can download melodies from the internet, from WAP™ or from interactive voice servers (see Melodies download, page 61).

To access the list of the downloaded melodies and the storage details (memory status):

1. Press . Select **Settings**.
2. Select **Tones**.
3. Select **Downloaded**.
4. Select **List**. The list of the downloaded melodies is displayed.
5. Scroll up or down and choose a melody. The melody is played within 2 seconds. Erase melodies by selecting **Delete** (confirm by selecting **Yes**).

Melody Composer

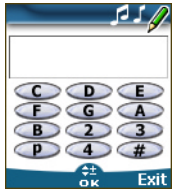
The Melody composer allows to create one's own melodies and use them as ring tones or alarm tones.

To create a melody:

1. Press . Select **Settings**.
2. Select **Tones**.
3. Select **Composed melodies**.
4. Select **List**.
5. Choose one of the available **[...]** and press **OK**.

To compose a melody:

Letters (corresponding to music notes) are displayed on the screen.



To select a note, press on the corresponding key on the keypad (regardless of the letters on the keypad).
e.g.:

- press key 1 to get the C
- press key 2 to get the D
- etc.

Key	Action
C	C
D	D
E	E
F	F
G	G
A	A
B	B
p	to insert a pause
ⓐ	octave up
ⓑ	octave down
#	sharp
2	note duration (400 ms)
3	note duration (600 ms)
4	note duration (800 ms)
▷	Short press: to move the cursor to the next character.
◁	Short press: to move the cursor to the previous character.
(**Clear**)	Short press: to go back to the previous screen if nothing on the entry field or clear the last typed character. Long press: to go back to the idle screen if nothing on the entry field or clear all typed characters.
(**Play**)	To play the melody.
OK	To validate and store the edited melody.

☑ The basis tempo is 200 ms.

The different symbols can be used one after another (e.g. G+#2= G sharp plays one octave higher for twice the basis tempo).

☑ 1. If the same signs (e.g. 2 octave, 2 duration or 2 sharp signs) are used one after another one only is taken into account. The other(s) are deleted during melody playing or storing process.

2. You can enter up to 128 characters per melody.

3. You can register 10 composed melodies on your mobile.

6. Select **Play** to listen to your composed melody.
7. Select **OK** to store the melody.
8. Type the melody name in and select **OK** to store it.

To edit, delete or play a registered melody:

1. Press . Select **Settings**.
2. Select **Tones** .
3. Select **Composed melodies** .
4. Select **List** .
5. Choose one of the registered melodies select **OK** if you want to modify the melody or to play it and select **Delete** if you want to erase it from the phone memory.

To view the composed melodies statistics:

1. Press . Select **Settings**.
2. Select **Tones** .
3. Select **Composed melodies** .
4. Select **Statistics** .

The Statistics screen shows the number of stored composed melodies and the memory capacity used.

Volume adjustments

The ring tone, key tones, conversation and alarm tones (alarm clock and low battery alarm) audio level can all be individually adjusted via the **Settings** menu:

1. Press . Select **Settings**.
2. Select **Tones** .
3. Select **Volume** .
4. Select **Ring**, **Keys**, **Conversation** or **Alarm** .

5. Scroll up or down to adjust the settings.
   You can also use the numeric keys to set the required audio level: pressing on 2 sets the volume to **2**, pressing on 6 or 7 sets the volume to **6** or **7** pressing on 0 sets the volume to the minimum value (**1** for the speech and **0** for all others).
6. Press **OK** to validate the setting.
7. Select **Save** to store your setting.

During a call you can adjust the conversation volume level by using the and keys.

1. If the ring tone volume level is set to Off the icon is displayed.
2. Setting the key tones to 0 deactivates the key tones.

Ramping

Ramping is a feature that, when turned on, causes the incoming ring tone to gradually increase to the maximum volume level if the call is not answered after the first ring.

1. Press . Select **Settings**.
2. Select **Tones** .
3. Select **Volume** .
4. Select **Ramping** .
5. Select **On** .
6. Select **Save** to store your setting.

When turned on the volume of the incoming ring tone starts from the current set volume and rises to the maximum volume level until answered.

Graphics themes

Themes and banners can be changed to personalise your standby display.

To select a standby graphic theme:

1. Press . Select **Settings**.
2. Select **Display** .
3. Select **Graphic themes** .
4. Select Your wall papers (see Customising your mobile, page 60) or one of the five graphic themes available (**Mitsubishi**, **Daisy**, **Dragon**, **Urban**, **Meridian**).
5. Select **Save** to store your setting.

1. The Urban theme changes twice a day: a night screen sets at 7 p.m., a day screen sets at 7 a.m.
2. The Meridian theme displays the origin and the secondary clocks (see Setting the time and date on your Getting Started with your M320 booklet).
3. The Mitsubishi, Urban, Daisy, Dragon, and Meridian themes cannot be modified or deleted.

Voice mail

Your network provider may offer a voice mail service which operates like an answering machine. You may be able to directly access it by pressing and holding the ① key.
Contact your service provider for further details.

Storing a voice mail centre number

If your SIM card does not bear the voice mail centre number you have to manually store it:

1. Press ⊙. Select **Settings,** then **Phone settings**.
2. Select **Phone settings** ⊙.
3. Select **Voice mail** ⊙.
4. Select **Number** ⊙. Enter the number (type it directly or select it from the **Names** list).
5. Press **OK** ⊙ to validate.

☑ 1. The voice mail number is automatically assigned to speed dial location number 1 (see Speed dialling on page 34).
2. If you subscribe to the 'Line 2' service its voice mail centre number has to be stored separately.

Activating/deactivating the voice mail alert tone

If you wish to be advised by a tone when receiving a new voice mail message:

1. Press ⊙. Select **Settings**.
2. Select **Voice Mail** ⊙.
3. Select **Alert**⊙. Select **On**.

Calling the voice mail centre to check your messages

You can either:

- Dial the voice mail centre number directly after the receipt of a message:

Press and hold ①.

- Or:

1. Press ⊙. Select **Settings**.
2. Select **Phone settings** ⊙.
3. Select **Voice Mail** ⊙.
4. Select **Call** ⊙.

Keypad lock

When the keypad lock is activated it prevents accidental operation of the keys. The key tones are muted and the backlight is deactivated.
Keypad lock is suspended on incoming calls and resumed when the call ends. Emergency calls can however be made. If a key is pressed a reminder message is displayed.
To activate and deactivate the keypad lock:

1. Press ⊙. Select **Settings**.
2. Select **Keys** ⊙.
3. Select **Keypad lock** ⊙.
4. To unlock the keypad, press **Unlock** ⌒ then #.

Phone settings

Language selection

You can change the language on your mobile:

1. Press ⊙. Select **Settings**.
2. Select **Phone settings** ⊙.
3. Select **Language** ⊙.
4. Choose a language from the displayed list and press **OK** ⊙ to validate.

☑ 1. To reset the language and get back to the SIM card default language type *#0000#.
2. To directly change the language from the stand by display type *#00xx(country code)#. E.g.: *#0044# for the UK sets the phone to English.

Backlight - setting

To adjust the backlight:

1. Press . Select **Settings**.
2. Select **Display** .
3. Scroll down and select **Backlight** .
4. Adjust the backlight with the and keys and press **OK** .
5. Select **Save** to store the setting.

If the keypad lock is on, no backlight comes up when pressing on the mobile keys.

Display contrast

To adjust the contrast:

1. Press . Select **Settings**.
2. Select **Display** .
3. Scroll down and select **Contrast** .
4. Adjust the contrast with the and keys and press **OK** .
5. Select **Save** to store the setting.

Any key answer

If you want to answer a call by pressing on any key (except and No ring).

1. Press . Select **Settings**.
2. Select **Keys** .
3. Select **Any key answer** . and select **On** .

Speed dialling

Phonebook numbers can be assigned to keys ② to ⑨. The ① key voice mail feature cannot be assigned a phonebook number as it is assigned by default to the voice mail number (see Voice dialling, page 18).
Numbers stored in both the SIM card and the phone (except from fixed dialling numbers) can be selected.

To assign phonebook numbers to the speed dialling keys:

1. Press . Select **Settings**.
2. Select **Keys** .
3. Select **Speed Dial** .
4. The Key number and the attached name (if any) is displayed. Select **Names** (or **Options** then **Names** if a number was already attached to the key) to choose a name from the names list.
5. Select **OK** to validate.

If a number which has been assigned to a speed dial key is deleted from the phonebook the corresponding number is automatically deleted from the speed dial key.

Auto answer

This feature only works when the phone is connected to a handsfree car kit or to a headset. The phone then automatically answers the call after about 5 seconds (no key to be pressed).

1. Press . Select **Settings**.
2. Select **Phone settings** .
3. Select **Auto features** .
4. Select **Auto-answer** and choose **On** .
5. Select **Save** to store your setting.

Auto retry

This allows the phone to automatically redial the number after the call failed due to an engaged line or an unavailable signal from the network. The number is re-dialled 10 times maximum until it goes through.

1. Press . Select **Settings**.
2. Select **Phone settings** .
3. Select **Auto features** .

4. Select **Auto-retry** and choose **On**.
5. Select **Save** to store your setting.

When activated, **Retrying** and a countdown timer are displayed before each new trial. An auto-retry warning tone sounds each time a new call attempt is made.
Selecting **Exit** or pressing any key during the retrial process cancels the auto-retry process.

Auto Switch On/Off

This allows the phone to automatically switch on or off at pre-determined times.

1. Press . Select **Settings**.
2. Select **Phone settings**.
3. Select **Auto features**.
4. Select **Auto-switch-on** or **Auto-switch-off** and select **On** to activate the feature.
5. Enter the time you want your mobile to switch on and/or to switch off and press **OK**.
6. Select **Save** to store your setting.

If the phone is already on at automatic switch-on time it remains on.
When the phone is about to automatically switch off a warning message and a countdown timer are displayed.
Selecting **Exit** cancels the switch off process.
If the mobile is already off at switch-off it remains off.

☑ If a call is in progress at switch-off time, the switch-off process is postponed until the call is ended.

> **Caution** - Remember to turn off the Auto switch-on feature when boarding an aircraft.
> See the General safety warnings.

Default settings

You can reset your phone and get back your mobile default settings via the **Settings** menu. This has no effect on the phonebook entries or the phone lock code.

1. Press . Select **Settings**.
2. Select **Phone settings**.
3. Select **Default settings**.

The following features are reset:

Feature	Default setting
Alert Tones	Ring
Melodies	Mitsubishi + (line 1) Mitsubishi + (line 2) Mitsubishi + (Alarm)
Volumes, Ring, Key, Speech, Alarm.	Mid values
Backlight, Contrast	Mid value
Any Key, Auto-Retry, Auto Answer features.	Off
Ramping	Off
Graphics Themes	Mitsubishi

GSM Services

Diverting incoming calls

This Network dependent service allows to divert incoming calls (voice, fax or data calls) to another number
To divert a call:

1. Press . Select **Settings**.
2. Select **GSM Services**.
3. Select **Call diverting**. The following sub-menu is displayed (n.b.: this menu contents may vary according to your service provider).

Divert options	Action
Always	To divert all incoming voice calls.
When not reachable	To divert all voice calls when the phone cannot be reached (out of service).
On no reply	To divert all voice calls when the call is not answered to.
When busy	To divert all voice calls when the line is engaged.
All conditions	To divert all voice calls when Not Reachable, No Reply and When Busy.
Cancel all	To cancel all diverting options.
All FAX calls	To unconditionally divert incoming fax calls.
All DATA calls	To unconditionally divert incoming data calls.

4. Select one of these options and select **OK**.
5. Select **Activate**.
6. Select **Voice Mail**, **Names** or **Number**.
7. Enter the number the calls have to be diverted to and select **OK**. A validation message bearing the selected number is displayed.

☑ 1. If the 'On no reply' option is selected please enter the time limit (5, 15 or 30 seconds; this also depends on your network) after which the feature is valid.
2. Call diverts for both Line 1 and Line 2 have to be set for each line. Only the selected line is affected by the call divert.

To check the call divert status or deactivate it:

1. Press . Select **Settings**.
2. Select **GSM Services**.
3. Select the call diverting type to be checked or cancelled.
4. Select **Status** or **Cancel**.

To cancel all (multiple) diverts,

1. Press . Select **Settings**.
2. Select **GSM Services**.
3. Select **Call diverting**.
4. Select **Cancel all**.

☑ 1. This action cancels all call diverts (for voice, faxes and data calls) for the current line.
2. To cancel call diverts for the other line you must select this other line first (menu Calls & Times - Line selection).

Call waiting

This network dependent feature allows to receive a new call while a call is already on (please contact your service provider for more information).
To activate the call waiting feature:

1. Press . Select **Settings**.
2. Select **GSM Services**.
3. Select **Call waiting**.
4. Select **Activate**. **Activated** or **Check your request** is then displayed.

☑ You can also cancel or check the service status.

Whilst on a call a beep sounds when a second call comes in.
Select Replace to end Call1 and answer Call2 or select Reject to refuse Call2 and go on with Call 1.
To put a call on hold and switch from Call 1 to Call 2:

1. Whilst on a call a beep sounds to indicate a second incoming call.
Select **Replace** to take Call 2 and end Call 1, Select **Reject** to refuse Call 2 or press the key to put Call 1 on hold and take Call 2.

2. Select **Options** then select **Swap** to get back to Call 1 and put Call 2 on hold or select **Join** to have a 3 party conversation.

Caller Line Identity - showing/ hiding your mobile number (network dependent)

Most networks allow Caller Line Identity feature (CLI). This feature allows the phone number or the identity of the caller to be displayed when a call comes in. Selecting **Receiving caller ID** allows to check the availability of this feature.

Receiving caller ID

You can check the availability of this feature on your network or subscription.

1. Press . Select **Settings**.
2. Select **GSM Services** .
3. Select **Receiving caller ID** .
   The network then either returns **Presentation available** or **Presentation unavailable** information.

Sending my ID

You can disable the sending of your own number on a call by call basis by adding #31# before the number you are dialling. You can also ask your service operator to always hide the sending of your mobile phone number. Once hidden by your operator you can show your number, on a call by call basis, by typing *31# before the number you are calling.
Please contact your service provider for more information.

Standard network setting

To reset the standard network setting and send your mobile ID,

1. Press . Select **Settings**.
2. Select **GSM Services** .
3. Select **Sending my ID** .
4. Select **My settings** .
5. Select **Preset** . The phone resets and gets back to its original network setting.

Hiding or showing your number

1. Press . Select **Settings**.
2. Select **GSM Services** .
3. Select **Sending my ID** .
4. Select **My settings** .
5. Select **Hide my ID** or **Show my ID** .

Finding out your current ID status

1. Press . Select **Settings**.
2. Select **GSM Services** .
3. Select **Sending my ID** .
4. Select **Status** .
   Your current ID status is displayed.

Mode of operation

This network dependent setting allows mobile operations to be either **Standard** or **Modem** type.

- Standard mode

The mobile tries to reach a GSM or a GPRS networks. If the mobile succeeds attaching a GPRS network, is displayed on standby mode. The mobile can then send and receive voice calls and packet data calls.
To set the mode of operations to Standard:

1. Press . Select **Settings**.
2. Select **GSM Services**.
3. Select **Mode of operation** .
4. Select **Standard** .

- Modem mode

The mobile tries to reach a GPRS networks only (not the GSM networks).

It can only receive packets data calls; voice calls are then barred. This behaviour is the same whatever the network capabilities.
However if the GPRS services are lost, the mobile automatically returns to the Standard operation mode.
To set the operation mode to Modem:,

1. Press . Select **Settings**.
2. Select **GSM Services** .
3. Select **Mode of operation** .
4. Select **Modem** .

Network automatic search:

When the phone is on, it automatically searches the last network it was registered to (usually the home network). If it is not available, the phone automatically searches and selects one of the networks registered in the preferred network list (located in the SIM card).

Editing the preferred list

The phone contains a list of networks which can be selected and transferred to the preferred networks list stored in the SIM.
This list can be changed to suit your travel arrangements.
The order and names of the networks in the preferred networks list can be edited and amended.

1. Press . Select **Settings**.
2. Select **GSM Services** .
3. Select **Network** .
4. Select **Preferred list** . A list of networks is displayed.
5. Use or to view the list and select one of the following **options** if you want to amend the list:

Option	Description
Modify by list	To display the list of all networks stored in the phone (alphabetical order).
Modify by code	To edit or enter the identification operator number if you have the information.
Delete	To delete an entry

6. Press **OK** to confirm the selection.

Your SIM card may contain a forbidden list of networks which cannot be used. To view the forbidden network list or show the home network:

1. Press . Select **Settings**.
2. Select **GSM Services** .
3. Select **Network** .
4. Select either **Forbidden** to get to the list of forbidden networks, or select **Home network** to get the name of your usual network.

Selecting manual search

You may need to select a specific network (e.g. better coverage than yours in the current location).

1. Press . Select **Settings**.
2. Select **GSM Services** .
3. Select **Network** .
4. Select **Search** .
5. Select **Manual** . The **Scanning for networks...** message is displayed.
6. Use or to select a network from the list.
7. Press to confirm the selection.
   Requesting... after which the phone will return to the standby display.

☑ 1. You cannot select a network for manual change if it is on the forbidden list (even if it is still listed as a choice).

2. You cannot delete a network from the forbidden list. This list is automatically updated when the manual network selection is performed.

Selecting automatic search

To perform an automatic search from the preferred list proceed as follows:

1. Press . Select **Settings**.
2. Select **GSM Services** .
3. Select **Network** .
4. Select **Search** .
5. Select **Automatic** .

Call barring

This network dependent service forbids certain outgoing or incoming call types. It requires a call barring password (please contact your service provider).

To bar a call:

1. Press . Select **Settings**.
2. Select **GSM Services** .
3. Select **Call barring** .
4. Select **Outgoing calls** or **Incoming calls** . Choose from the following :

Select	Meaning
Outgoing-All outgoing	To bar all outgoing calls.
Int'nal calls	To bar all outgoing international calls.
Int'nal excl. home	To bar all outgoing international calls except from calls to subscribers within your home network
Incoming - All incoming	To bar all incoming calls.
Roaming only	To bar all incoming calls when not on the home network.

5. Select **Activate** . Enter the password and press **OK** . The network then confirms the selection.

To remove call barring or check its status:

1. Press . Select **Settings**.
2. Select **GSM Services** .
3. Select **Call barring** .
4. Scroll up or down to select the barring type to be deactivated (Cancel) or checked and follow the displayed instructions.

To change the password:

1. Press . Select **Settings**.
2. Select **GSM Services** .
3. Select **Call barring** .
4. Select **Change password** . First enter the former password then enter the new password twice. A Confirmation message is displayed.

Security features

The security features described in this section protect your phone from unauthorised use.

When requested enter the code and press **OK** . Codes are displayed as asterisks (*).

Press **Clear** if you need to amend your entry.

☑ Avoid using codes similar to emergency numbers such as 999 or 112 to prevent accidental dialling of these numbers.

KEEP A RECORD OF YOUR CODES AND KEEP THEM IN A SAFE PLACE.

Phone lock code

A phone lock code is supplied with the phone for security purposes. It prevents unauthorised access to the phone and to the WAP™ settings.

The default code is **0000**. We suggest that you change this code and keep the new one in a safe place.

The phone lock code is also required to reset the call timers. Once this feature is activated the code is then asked each time the phone is turned on.
To change the phone lock code:

1. Press . Select **Settings**.
2. Select **Security** .
3. Select **Phone lock change** and follow instructions displayed.
4. Press **OK** to validate the new code.

To activate / deactivate the phone lock code,

1. Press . Select **Settings**.
2. Select **Security** .
3. Select **Phone lock enable** (if the code was disabled) or **Phone lock disable** (if the code was enabled) and enter your **Phone lock code**.

☑ Emergency calls can still be made when phone lock is activated.

PIN code

Your SIM card was provided with a 4 to 8 digit PIN code as a protection against unauthorised usage. When enabled the PIN code is required each time you turn your mobile on. If a wrong PIN code is entered three times in succession your SIM card is blocked. The 8 digit PUK code is then requested to unblock your phone. Please contact your service provider to get this code.

To activate the PIN protection:

1. Press . Select **Settings**.
2. Select **Security** .
3. Select **PIN enable** (if the code was disabled) or **PIN disable** (if the code was enabled) and enter your **Pin code** .

To change the PIN code (PIN must first be enabled),

1. Press . Select **Settings**.
2. Select **Security** .
3. Select **PIN change** and follow the displayed information.
4. Press **OK** to validate your new PIN code.

PIN2 code

PIN2 code prevents unauthorised access to some of the mobile features (e.g. activating/deactivating FDN operations, modifying the FDN phonebook, setting calls costs to zero, modifying the costs display features). This code can be changed but not be activated or deactivated.
Please contact your service provider to get your PIN2 code.
To change the PIN2 code,

1. Press . Select **Settings**.
2. Select **Security** .
3. Select **PIN2 change** and follow the displayed information.
4. Press **OK** to validate your new PIN code.

PUK code

The PUK (PIN unblock key) is an 8 digit code supplied by your service provider. It is used to unblock the phone when a wrong PIN code has been entered incorrectly three times. A PUK code cannot be changed.
When requested enter the PUK code and select **OK** . You are then asked to enter a new PIN code. Follow the displayed prompts to reset the PIN code.

☑ If you have entered the wrong PUK code 10 times in succession your SIM card is definitely blocked. Contact your service provider to get a new card.

PUK2 code

The PUK2 is an 8 digit code supplied by your service provider. It is used to unblock the phone when a wrong

PIN2 code was entered incorrectly three times. A PUK2 code cannot be changed. When requested enter the PUK2 code. You are then asked to enter a new PIN2 code. Follow the display prompts to reset the PIN2 code.

☑ If you have entered the wrong PUK2 code 10 times in succession using the features requiring the PIN2 code, your mobile is definitely blocked. Contact your service provider for a new card.

Call barring password

The call barring password is used to select the call barring levels mentioned in the **GSM Services** - **Call barring** menu (see page 39). It is supplied via your service provider.
Refer to page 39 to change the password.

Summary of code/password entry chart

Password	Length	Number of allowed trials	If blocked or forgotten
Phone lock code	4 digits	Unlimited	Return phone to manufacturer
PIN	4-8 digits	3	Unblocked by use of PUK code
PIN2	4-8 digits	3	Unblocked by use of PUK2
PUK	8 digits	10	Contact your service provider
PUK2	8 digits	10	Contact your service provider
Call barring password	4 digits	Defined by service provider	Contact your service provider

Certificates

Certificates are used for network security exchange.
There are two types of certificates: the user's certificate and the trusted certificate.
The user's certificate is sent by the phone to the contacted WAP™ service. It is a proof of the user's identity.
The trusted certificate is sent by the contacted WAP™ site to the phone. It guarantees the WAP™ site is authentic and you have the right certificate in your phone. If you do not have the right certificate the site identity cannot be checked (certificates can then be downloaded from a WAP™ page).
To display a certificate,

1. Press ⊂⊃. Select **Settings.**
2. Select **Security** ⊂⊃.
3. Select **Certificates** ⊂⊃. Enter the 4 digit lock code (default code is **0000**) and press **OK** ⊂⊃. The list of certificate subjects is displayed.

The detailed view is displayed and is made of:

- A header which informs about the certificate format and its storage location,
- The certificate subject,
- The certificate issuer,
- The certificate validity dates (start and end dates),
- The certificate fingerprint.

WIM Manager

The WIM (Wireless Identity Module) Managers use is to allow secured access to paid services via the WAP™ features.
A special SWIM card is required to use this feature (please contact your service provider for more information on the SWIM card). It allows certificates (see definition above) and tickets to

be provided to and from selling companies when undergoing a paid transaction.

To enter the WIM manager menu:

1. Press . Select **Settings.**
2. Select **Security** .
3. Select **WIM Manager** .

Select one of the list items:

- WIM code (PIN code available on the WIM card to change, create or delete a file) change/unblock. If you enter 3 wrong WIM codes, 'WIM code blocked' is displayed.Contact your service provider to get the corresponding unblock code.
- Signature codes (list of the different signature codes). These codes depend on the service you wish to use (contact your service provider for more information on the signature codes).
- Tickets. A ticket is a document emitted on purchasing as a proof of the transaction (receipt). 5 tickets can be stored in the phone memory (they are then deleted one after another).

To go over a transaction and use the security WIM system:

1. From the WAP™ page, when getting to a paid service, press .
2. A sum-up of the transaction is shown on the following page. Press to validate.
3. Enter the requested signature code (4 to 8 digits). A sum-up of the whole transaction (the **Ticket detail** page) is then displayed and shows the transaction **Date**, **Clear Text** and **Information**.
4. Press to validate and save the ticket.

☑ Tickets are tracks of transactions as they are emitted by the mobile and not by the selling company. They t cannot be used as a proof in case of legal problem.

To view tickets:

1. Press . Select **Settings.**
2. Select **Security** .
3. Select **WIM Manager** .
4. Select **Tickets** .
5. The list of available tickets is displayed: choose one and select to view its contents.

Office Tools

The **Office Tools** menu contains a diary, a pictures browser, a voice memo, a calculator, a currency converter, a world clock and an alarm clock.
When scrolling to the Office Tools menu direct access to the Currency converter is possible by selecting Curr. on the left side of the display.

Diary

The Diary is divided into three parts:
- The calendar (to manage the events),
- The tasks list (to manage the tasks),
- The statistics (to provide the diary memory information).

An event is a diary entry that has a direct implication on your timetable (e.g. 2 meetings at the same time).
A task is a diary entry that has no direct implication on your timetable (e.g. organising a journey).

Calendar

The calendar allows to store up to 100 events to occur either once, daily, weekly, monthly or yearly. Each entry can contain up to 50 characters and a reminder alarm set to the entry time or set to 15, 30, 60 minutes or any specific period before the entry time. Events can be viewed individually on a daily, a weekly or a monthly basis. Events can be sent via the IrDA port or by SMS.
To enter an event,

1. Press . Select **Office Tools**.
2. Select **Diary** .
3. Select **Calendar** . A Monthly or Daily view is displayed according to the previously stored events.
4. Select **Options** .
5. Select **New event** .

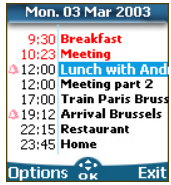
An empty new event card is displayed with the following fields:

- Title (to type up to 10 characters)
- Description (to type up to 50 characters)
- Starting date and time
- Ending date and time
- Alarm
- Location
- Repetition

6. Enter or select the requested data. Confirm each entry by pressing **OK** .
7. Select **Save** to confirm data storage.

To view day's entries:

1. Press . Select **Office Tools**.
2. Select **Diary** .
3. Select **Calendar** .
4. Select **Options** .
5. Select **Today** to view the current day's entries or select Day to view the selected day's entries. A list of the day stored events is displayed.



Each event is displayed on one line as follows :
- A graphic representation if an alarm was set,
- The event starting time,
- The first part of the event title,
- Red events show time conflicts were found on two or more events.

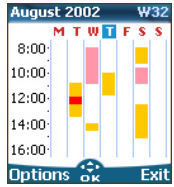
The following actions are available:

Actions	Purpose
	To move down to the next event or loops back to the first one

	To move up to the previous event or loops to the last one
	To move to the previous day
	To move to the next day

An Options list is available. It allows to go to the Today,
Week or Month view, to create a new event, to Modify an event, to Send an event by IrDA, to Send an event by SMS, to delete an event, to delete all events and to view tasks.
To view weekly entries,

1. Press . Select **Office Tools**.
2. Select **Diary** .
3. Select **Calendar** .
4. Select **Options** .
5. Select **Week view** .

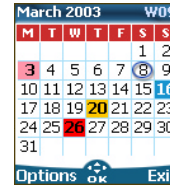


The days of the week are displayed horizontally and the hours of the day are displayed vertically.
The week events are in chronological order. Each event is represented as a bar (its length depends on its duration and its colour shows if the alarm is activated or not).
The following actions are available:

Actions	Purpose
	To move down to the next time interval
	To move up to the next time interval
(short press)	To move to the previous day
(long press)	To scroll to the previous week
(short press)	To move to the following day
(long press)	To scroll to the following week

An Options list is available. It allows to go to the Today, Day view, Month view, to create a New event, to delete all events, and to view tasks.
To view monthly entries:

1. Press . Select **Office Tools**.
2. Select **Diary** .
3. Select **Calendar** .
4. Select **Options** .
5. Select **Month view** .



The whole month is displayed. The initials of the days are displayed horizontally (red line).
If the selected month is the current one, today's number is rounded and coloured. Colours show the days (and alarm activation) of the stored events.
The following actions are available:

Actions	Purpose
	To move down within the current display
	To move up within the current display
(short press)	To move to the previous day
(long press)	To scroll to the previous month
(short press)	To move to the following day
(long press)	To scroll to the following month

An Options list is available. It allows to go to the Today, Day or Week view, to create a new event, to delete all events, and to view tasks.

Tasks list

This feature enables to store up to 100 tasks to be done (To do), scheduled with a start, and a due date, with or without a reminder alarm.

Tasks can be sent through the IrDA port.

To enter a new task:

1. Press . Select **Office Tools**.
2. Select **Diary** .
3. Select **Tasks list** .
4. Select **New task** and enter the required information:

An empty task card is displayed with the following fields:

- A title (up to 10 characters)
- A description (up to 50 characters)
- A starting date
- A due date
- An audio alarm which can be activated at your required time

5. Select **OK** then **Save** to store the new task.

To display a tasks list:

1. Press . Select **Office Tools**.
2. Select **Diary** .
3. Select **Tasks list** .
4. Select **Elapsed tasks** or **Current tasks**.

The tasks are displayed in a list, ordered by date. If an alarm is activated for a task, is displayed.

An Options list is available. It allows to Modify the current task, to create a New task, to Send a task by IrDA, to Send a task by SMS, to delete all the tasks, to delete all tasks expired.

Alarm notification

The alarm notification screen is displayed on due time according to the event or task it is related to.

If it is not acknowledged the alarm stops ringing after 60 seconds. It automatically restarts up to n times (n is set by the operator) after a snooze time until it is stopped or up to the beginning/ending time and date of the event/task.

Press **Valid** to acknowledge the alarm or press **Snooze** to repeat the alarm after the snooze period.

☑ Snooze is only available on an event alarm.

Statistics

This feature displays the memory status for the calendar. The number of the registered events and tasks is displayed as a chart.

Up to 100 events and 100 tasks can be registered.

The following actions are available through the **Options** softkey:

Actions	Purpose
Delete events	To delete all the period events.
Delete tasks	To delete all period tasks.
Delete all events	To delete the whole file (events) contents.
Delete all tasks	To delete the whole file (tasks) contents.

Data exchange

The purpose of this feature is to allow easy transfer of vCards and vCalendars.

A vCard or a vCalendar are phonebook cards and diary cards that are sent or received to/from another device (mobile, computer,...). When a vCard or a vCalendar is received on the phone, a beep sound is heard and the **Inbox** icon is displayed with the number of files in it.

Storing a received vCard

1. Select **Read** on the idle screen when you have received the file.
2. Select the received document (**.vcf**).
3. Select **Options**.
4. Select **Store**.
5. Select **Phone names**, **Sim names**, **Sim fixed** or **My card**. **Copied** is displayed, the vCard is then stored.

Storing a received vCalendar

1. Select **Read** on the idle screen when you have received the file.
2. Select the received document (**.vcs**).
3. Select **Options**.
4. Select **Store**. **Stored** is displayed, the vCalendar is then stored.

Sending a vCard or a vCalendar via SMS

1. Select the vCard or the vCalendar you wish to transfer as explained in Viewing and calling phonebook numbers, page 16, Calendar, page 43 and Tasks list, page 45 or select it from the **Inbox**.
2. Select **Options**.
3. Select **Send by SMS**. A warning may then be displayed, advising on the number of SMS needed to send the card (if more than 1 SMS needed).
4. Select **OK** if you wish to continue.
5. Enter the number you want to send the vCard or the vCalendar to, or pick up a name from the **Names**.

Pictures Browser

The pictures browser sub-menu allows to view and set downloaded images as wallpapers or banners via the Pictures Viewer (see Customising your mobile, page 60).

Pictures viewer

The pictures viewer allows to view the list of stored images. The screen is divided into two parts: the image names list and the selected image.

Viewing an image

1. Press . Select **Office Tools**.
2. Select **Pictures browser**.
3. Select **Pictures viewer**.
4. Scroll down the list of image names. The matching image is displayed underneath. Pressing or selecting **Options**, then **View** puts the image on full size. Press any key except the cursor key or the key to come back to the Pictures **Viewer** screen.

Options

The Pictures viewer **Options** list bears the following items:

Option	Description
View	To view the picture in full size.
Set as wallpaper	To set the image as a wallpaper on the idle screen.
Set as banner	To set the image as a banner on the idle screen.
Delete	To delete the current image (if it was not preset on your mobile).

Delete all	To delete all the Pictures viewer contents except from the pre-set images.
Details	To show the name and size of the current image.
Send by IrDA	To send the current image via the infrared port.

1. The sending of images via the infrared port may not be available on your phone. Please check with your operator.
2. The sending of an image may not be allowed if it is copyright protected (an error message is then displayed).

Setting an image as a banner or a wallpaper from the Pictures Viewer

1. Press . Select **Office Tools**.
2. Select **Pictures browser** .
3. Select **Pictures viewer** .
4. Use or to scroll through the image names list.
   The matching images are displayed underneath. Select **Options** .
5. Select **Set as banner** or **Set as wallpaper** .

This is also possible from the Inbox or via Wap™.

Cropping

The image you want to set as a banner or wallpaper may be too big to be inserted as such into the available space. Your phone then proposes a cropped banner or wallpaper.

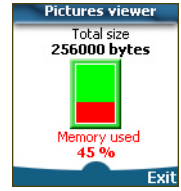
It is then possible to move the image left, right, up and down (cursor key). The image you have cropped is then displayed on your idle screen (as a banner or wallpaper according to your choice).

1. Select **Set as wallpaper** or **Set as banner** . If the image is too big, the **Crop** screen is displayed.
2. Use , , or to move the image up, down, left or right.
3. Select **OK** . **Stored** is then displayed.

See Customising your mobile, page 60 for more details.

Statistics

Statistics show the total available space for pictures storage and the percentage of memory used.



Voice memo

This feature allows you to record up to 120 seconds of voice memo or phone conversation.

In compliance with European regulations, you have to inform your correspondent before recording a phone conversation.

To record a voice memo:

1. Press . Select **Office Tools**.
2. Select **Voice memo** .
3. Select **Record** .

To record a voice memo while in conversation:

1. Select **Options** .
2. Select **Record** .

The display shows the recording time left. The recording then starts.

Press **Stop** to end the recording.

To listen to the voice memo,

1. Press . Select **Office Tools**.
2. Select **Voice memo** .
3. Select **Play back** .

The recorded memo length of time is displayed.

4. Select **Read** to listen to the memo.

5. Select **Stop** to end the memo playing.

To erase the memos

1. Press . Select **Office Tools**.
2. Select **Voice memo** .
3. Select **Play back** .
4. Select **Read** .
5. Select **Erase** to delete the memos from the memory.

☑ The Voice memo can be directly reached from the stand by display by pressing and holding the key.

Calculator

This feature allows simple calculations using + (plus), - (minus), * (multiplication), / (division) and % (percentage) functions.
If the currency converter is initialised, numbers can be converted during calculations.

To use the calculator,

1. Press . Select **Office Tools**.
2. Select **Calculator** .
   The calculator icon ( ) and **0** are displayed. The phone is ready to perform simple calculations.

Press keys 0 to 9 to type numbers. Press the * multitap (for further details on the multitap text entry method please see Entering text, page 21) to get **+**, **-**, ***** and **/** symbols. Use the # multitap to type decimal points or **%**.

Press **Clear** during a calculation to correct an entry. Press **=** to get the operation result.

e.g: **144 x 12 = 1728**

Key sequence	Display
1 4 4	**144**
* * *	*****
1 2	**12**
=	**1728**

Pressing **=** again after obtaining the first result continues the calculation via the obtained result and the last operator (**+**, **-** ,***** ,**/**) symbol.
Following the above example, pressing **=** again calculates 1728 x 12 = 20736

Pressing **Clear** deletes the result.

☑ The % function can only be used (entered) as the last operator during a calculation.
e.g.250 - 10% = 225

An integrated currency converter facility is also available. The currency converter needs to be set before being used. See Currency converter underneath.
e.g. using the currency converter £-**€**:
€ 154 +€ 3 = £ 97.1374

Key sequence	Display
Curr.	« »
1 5 4 0	**95.2813**
*	**+**
3 0	**1.8561**
=	**97.1374**

In the example, pressing **=** again calculates £ 97.1374 + **€** 3 = £ 98.9935.

☑ 1. This example was made on the basis of the following exchange rate: € 1 = £ 0.61871.
2. The Currency converter feature can be reached from the Calculator and from the Currency converter submenus.

Currency converter

This feature allows currency converting. The currencies and exchange rates have to be entered before first use. The conversion is calculated on the per unit exchange rate of the second selected currency.

To select the currencies and the exchange rate,

1. Press ⊂⊃. Select **Office Tools**.
2. Select **Currency converter** ⊂⊃.
3. Select **Settings** ⊂⊃.
4. Enter the first currency name (e.g. Euro). Press **OK** ⊂⊃. Enter the second currency name (e.g. Dollar). Press **OK** ⊂⊃.
5. Enter the exchange rate using # to enter a comma. Press **OK** ⊂⊃ to validate the entry. Press **Save** ⊂⊃ to confirm data storage.

To calculate the conversion between the chosen currencies,

1. Press ⊂⊃. Select **Office Tools**.
2. Select **Currency converter** ⊂⊃.
3. Scroll through the panels and fill in one of the first two options.
4. Enter the amount to be converted. Press # to insert a comma, if needed. Press **OK** ⊂⊃. The converted amount and the exchange rate information are displayed.

☑ Conversion from one Euroland currency to another, or to non-Euroland currencies, should normally follow "triangulation" rules (i.e. conversion of local currency to Euros and then Euros to other local currencies). Your Currency-converter does not provide this possibility. The result you obtain is consequently approximate.

World clock

This feature allows to reference the mobile according to the world time zone map, based on Greenwich Mean Time (Origin clock). A secondary clock is also available (Secondary clock).
This feature is useful for the Diary. To import or export calendar cards, events and task timetables have to be set according to Time zones.
Both clocks are displayed on the same screen. The date and time and the city name are displayed for both clocks.

Clock setting

To set the origin clock:

1. Press ⊂⊃. Select **Office Tools**.
2. Select **World clock** ⊂⊃.
3. Select **OK** ⊂⊃ to edit the settings scroll through the panels and fill in the required information.
4. Select **Save** ⊂⊃ to store the data.

Clocks swap

This feature is useful when travelling: the local clock is displayed but you can swap between the origin clock and the secondary clock.
To swap clocks:

1. Press ⊂⊃. Select **Office Tools**.
2. Select **World clock** ⊂⊃.
3. Select **Swap** ⊂⊃. An information message is displayed. The secondary clock becomes the origin/mobile clock and the origin clock becomes the secondary one.

Alarm clock

This feature allows setting a daily 'Reminder Alarm'.

To set a time and turn the alarm on:

1. Press . Select **Office Tools**.
2. Select **Alarm clock** .
3. Select **On** and enter the alarm time or press **OK** to validate the displayed time. Confirmation is then displayed. is displayed when coming back to the idle screen.

☑ When 'on' the alarm operates at the same time every day until turned off.

When the alarm time is reached an audible alert sounds for 1 minute. **Alarm clock** and a vibrating bell symbol are displayed together with the current time.

If the phone is off at alarm time the phone automatically switches on.

To use the alarm as a Reminder or a Snooze Alarm:

Press **No ring** , or any other key (except **Valid.**) to stop the alarm. The alarm icons remain on the display and the alarm re-starts ringing 3 minutes later.
or
Press **Valid.** to acknowledge and end the alarm ringing.

If the phone is locked or if the PIN setting is on the phone returns to this locked state after the alarm has rung until you operate it.

If the alarm is acknowledged but not validated the alarm indicators remain on the display for up to 15 minutes (it afterwards either goes back to its 'on' or 'off' previous state).

To turn the alarm off:

1. Press . Select **Office Tools**.
2. Select **Alarm clock** .
3. Select **Off**.

☑
1. If the Valid softkey is not pressed after the 3rd (and final) alarm ringing the ringing is not repeated but the phone remains on for 15 minutes. After those 15 minutes the phone reverts to its state before the alarm sounded.
2. If the phone is being switched on or off at alarm time the alarm clock starts ringing after this transitional step is over.
3. If a call is on at alarm time a 'Call in progress' alert beep sounds and a visual alert is displayed every 3 minutes. Validate or acknowledge the alarm the usual way.

Connectivity

Infrared port

The infrared port allows to exchange data between the mobile and other devices (provided they have an infrared port).
Thanks to the infrared port you can download or send files such as images for your wallpaper (see Downloading images via WAP™ and the infrared port, page 60), send or receive Vcards,...
To initiate a transfer via the infrared port, your mobile must be placed facing another infrared port before port opening starts.
Both ports can then be opened and synchronised. The requested transfer can be performed. Objects (e.g vCards) are transferred one by one.

Opening the infrared port

Opening the infrared port allows to receive information via this port.
Once opened, the infrared port can be used for any kind of transfer (data, fax, file transfer,...). The infrared port is automatically closed after a while.
To open the infrared port,

1. Press . Select **Connectivity**.
2. Select **Infrared port** .
3. Select **Open** . Confirmation is displayed. is displayed on top of the standby display to confirm the port opening.

Items can then be received. When an item is received, the idle screen is masked by the new item reception status.

Closing the infrared port

Closing the infrared port closes all infrared sessions (OBEX and IrCOMM sessions).

To close the infrared port:

1. Press . Select **Connectivity**.
2. Select **Infrared port** .
3. Select **Close** .

Transferring a phonebook card via the infrared port

You can transfer phonebook cards via the infrared port:

1. Place your mobile opposite the other device infrared port.
2. Open the other device infrared port.
3. Select the card you wish to transfer as explained in section Viewing and calling phonebook numbers, page 16.
4. Select **Options** . Select **Send by IrDA** . The infrared port is opened and the transfer is then performed.

Connection manager

The Connection manager service manages and centralises circuit and packet connection profiles (see Internet/WAP™, page 54) for online applications.

Creating a connection profile

1. Press . Select **Connectivity**.
2. Select **Connection manager** .
3. Select **Connection profiles** .
4. Choose an empty profile (**[...]**) and select **OK** .
5. Choose **GPRS connection** or **Circuit connection** and select **OK** .

6. Fill in the requested information (contact your service provider to get all necessary parameters) and select **Save** to store the entered data.

☑ Circuit = CSD connection
Packet = GPRS connection

Viewing the connection details

1. Press . Select **Connectivity**.
2. Select **Connection manager** .
3. Select **Data counters** .
4. Select **Circuit counters** or **GPRS counters** to view the connection details (bytes during connection). Then select **Details** to get the details per connection profile.

Resetting the connection counters

1. Press . Select **Connectivity**.
2. Select **Connection manager** .
3. Select **Data counters** .
4. Select **Reset counters** and select **Yes**. Enter the **Lock code** (the default lock code is **0000**).

Inbox

All the files received via the infrared port are stored in the Connectivity inbox. It allows the storing of data received from various entries: IrDA, WAP™, SMS (Nokia™ smart messages only).
The objects are queued in the inbox and can be retrieved by object type: Task card, images, melodies, Event card, Business card,...
Specific dedicated downloads are not inserted in this queue (e.g. melodies are directly stored in the Tones sub-menu).

To display the inbox contents:

1. Press . Select **Connectivity**.
2. Select **Inbox** .
3. Use the Use or to scroll the **Inbox** and view your files.

The received files list is displayed, from the latest received file to the earliest. The corresponding icon and the file extension type are also shown. Icons define the file type (images, melodies, vcard, ...). The following actions are available in the **Options** menu: Delete, Delete all, Store, Details, Send by SMS and Send by IrDA (you can also get access to the Set as banner, Set as wallpaper, View, or Play according to the received file type: image, melody,...).

Statistics

To consult the free space in the Inbox memory:

1. Press . Select **Connectivity**.
2. Select **Statistics** . The total remaining memory space and the memory used information are displayed.

Games

The availability and appearance of the games on your mobile depend on the services provided by your network operator (please check with your network operator for more information).
The games in your phone may be either Rayman Bowling™ and Rayman Garden™ or the In Fusio™ games.

Rayman Bowling™ and Rayman Garden™

To play one of these games:

1. Press . Select **Games**.
2. Choose the game you wish to play and press **Select**.
3. Select **Level** to choose the difficulty level.
   Select **Highest Score** to view the best and last scores.
   Select **Parameters** to set if you wish sound effects or no sound and to select the volume level.
   Select **Instructions** for instructions on how to play the game and the controls to be used.
4. Select **Play** to start the game.

If a call is received whilst a game is being played the normal received call display will be shown and the call is answered in the normal way. When the call is finished the game resumes if you have not accessed the menu while in conversation.

In Fusio™ Games

You may be able to download games onto your mobile. Up to 2 games can be stored in the phone. One is a default one. You cannot delete or replace this game.

The second game may not have been downloaded in your phone; if not, you can download it by choosing it from the Catalogue menu. You can replace the second game by another one from the catalogue as many times as you want. The Catalogue allows you to get the list and description of the games you can download. If the contents of the catalogue is not available on the phone it can also be downloaded. All information related to games downloading is available in the Instructions menu.

The In Fusio™ games menu is made of the following sub-menus: **Catalogue, News, Settings** and **Instructions** in addition to the available game(s) name(s).

Item	Action
Catalogue	Select **Catalogue** to see and/or download games available on the network.
News	Select **News** to get information on new games availability.
Settings	Select **Settings** to access the sound, backlight... settings common to all games.
Instructions	Select **Instructions** for all information related to games downloading.

☑ Receiving an incoming call while playing may not allow you to resume the current game.

Internet/WAP™

Your mobile allows WAP™(Wireless Application Protocol) internet connections to access operator and/or internet provided services (e.g. news, sports, weather, travel buying, etc.).
To get a WAP™ internet connection please make sure:

- your SIM card bears a Data subscription
- all parameters are stored into the mobile. These parameters may have been set by your operator. If not you have to enter them manually.

Please contact your service provider to check these elements and get the detailed list of parameters to be entered.

Storing the connection settings

The current date and time must be set before you enter any WAP™ connection setting (see 'Setting the Date and Time' on the 'Getting started with your M320' booklet).
The profile list can contain up to 10 internet profiles. A profile is a WAP™ connection list of parameters. Each profile allows access to a specific WAP™ gateway.

To enter and store the profile details via the Assistant

1. Press . Select **Internet**.
2. Select **Internet profiles** .
3. Choose an empty profile (**[...]**) by selecting **Assist** .

The Assistant feature allows easy entering of the WAP™ parameters to access WAP™ servers. It displays the fields to be filled in one after another.

4. Enter each parameter and validate by selecting **OK** .
   There are 6 screen levels to be filled in. The requested information depends on connection type.
   If you want to set a WAP™ (circuit) connection, please fill in the following fields:
   1/6 Profile name
   2/6 Gateway IP Address
   3/6 Home page (URL address): select **List** to get and select one of the available home page addresses or the http:// and https:// root addresses.
   Select **Circuit connection** .
   4/6 Phone number
   5/6 Login (Identification)
   6/6 Password (for access control)
   If you want to set a GPRS connection, please fill in the following fields:
   1/6 Profile name,
   2/6 Gateway IP Address,
   3/6 Home page (URL address)
   Select **Packets** .
   4/6 Access point name
   5/6 Login (identification)
   6/6 Password (for access control)

To enter and store the profile details in standard mode

You can only register profile details via the standard mode if you have previously registered profiles in the Connection manager menu (see Connection manager, page 51):

1. Press . Select **Internet**.
2. Select **Internet profiles** .
3. Choose an empty profile (**[...]**) by selecting **OK** .
4. Enter the profile name and select **OK** .
5. Select **Settings** .

6. Enter the requested parameters. Select **Save** to store the data.
7. Select **Connection profiles**. Enter the requested information (the Circuit access and Packets access fields are linked to the Connection manager). Circuit and GPRS access names and thus allow to pick one from the displayed list - see Connection manager, page 51). Select **Save** to store the data.
8. Select **Push parameters** (please contact your service provider to get the information to be entered).
9. Your internet profile is then stored.

1.All the requested parameters are obtainable from your network operator and/or internet provider.
2. The phone number or access point name, the login and the password are automatically stored in the Connection Manager (see Connection manager, page 51).
3. A profile name cannot be stored twice. If an error message is displayed please also check the profile names in the Connection profiles (see Connection manager, page 51).
4. Access to the connection settings may depend on the pre-programmation of the settings. The connection settings menu may not be available in some cases. These settings may be 'Locked' and not be user programmable.
5. You can request the activation of the security feature from the profiles list (Settings / Activate security).
6. Your service provider may require to have the security context reset. Select Yes.

Starting a WAP™ session:

If several Internet profiles are stored, you need to select one before launching a session:

1. Press . Select **Internet**.
2. Select **Internet profiles** .
3. Scroll to the required profile and choose one by selecting **OK** (**Selected** is displayed).

To launch a WAP™ session:

1. Press . Select **Internet**.
2. Select **Home page** .
   The WAP™ connection is then launched and the list of the available site services is directly displayed.
   If the activated Internet profile is not correctly set or if your subscription does not allow you to reach the selected internet site the **Not available** then **Connection failure** messages are displayed.
3. To close the session, select **Exit** and select **Yes** to validate your choice or press **Options** and select **Close session** . To disconnect press or press **Options** and select **Disconnect** .

Getting to the Options menu while online.

In the absence of **Options** while online pressing during a live connection shows the following options menu:

Item	Action
Back	To go back to previous page.
Home page	To go to and reload the home page.
Bookmarks	To provide immediate access to the bookmarks. You can add a new bookmark or select an existing bookmark.
Reload	To reload the current WAP™ page.

Item	Action
Other site + New address	To provide access to a specific URL, based on the corresponding menu item.
Other site + New address Bango	To provide quick access to a specific input URL
Other site + Address List	To provide access to one of the last seven entered URL addresses
Push Messages + Push inbox	To provide access to the list of all the push messages stored in the Inbox. If no message is available, an information message 'Push inbox - Empty' is displayed.
Push messages + statistics	To provide access to the push message information (inbox statistics).
Settings	Same as when offline
Download pictures	To download in the inbox all the pictures displayed in the current page. This item is only displayed if some pictures are present in the page
Disconnect	To disconnect the browser from the network. However the browser remains active locally with the current page displayed.
Close session	To disconnect the browser from the network. The current page is lost and the Internet menu is displayed again.

The appearance of these items in the above options menu may be operator dependent.

Ending the online connection

To end the internet connection:

Press twice.

☑ You can also select Close session item under the options menu.

Selecting a preferred bearer

When defining mixed (**Circuit+Packets**[1]) based profiles, you have to select the default bearer to be used when initiating a connection. If an error is detected the other one can then be proposed and used ('Use alternate connection mode?' is displayed).

To select a preferred bearer:

1. Press . Select **Internet**.
2. Select **Settings** .
3. Select **User preferences** .
4. Select **Preferred bearer** (**Circuit** or **Packets**) . Select **Save** to store the data.

☑ The Prefered bearer sub-menu may not be available on your mobile (operator dependent feature).

Personalising your connection settings

The following user settings are available and enable to optimise the phone behaviour during internet connection.

1. Press . Select **Internet**.
2. Select **Settings** .
3. A list allows to select different options:

Option	Action
Clear cache	To delete the information stored (during connection sessions) in the Cache memory.
Clear address list	To delete the seven last addresses entered in the URL list.

1.GPRS availability is network dependent.

User preferences	To configure the browser and allow it to display the pages in full screen mode, large, medium or small fonts, to allow or forbid pictures download and script execution in WAP™ pages.
Push preferences	See Receiving push messages, page 58.

Once connected your operator menu is displayed. The icon at the top of the display indicates a circuit connection. The icon is shown if your phone is connected to a GPRS[1] network during the WAP™ session.

During page browsing, security can be activated (on a https link only). This lets you continue local browsing (via the cards in the memory). When a connection to the network is needed again, a secured connection is requested to the same profile.

When the secured connection is established, the icon at the top of the display indicates a circuit connection in secure mode. The icon is shown if your phone is connected to a GPRS network during the WAP™ session in secure mode.

☑ When activating the secured mode the mobile and the server undergo exchanging certificates. You may then be asked to accept this exchange.

Creating bookmarks

Bookmarks provide direct links to determined internet pages. You can store direct links to these pages.

There are two ways of registering bookmarks (maximum: 20):

1. GPRS availability is network dependent.

• Directly from the standby display,

1. Press . Select **Internet**.
2. Select **Bookmarks** . The list of bookmarks is displayed in alphabetical order.
3. Select an empty entry (**[...]**). Select and enter the requested information in the following fields:

Item	Action
Alias	Name you want to give to your bookmark
Address	Home page address (if known)

4. Select **Save** to store the data.

• During a circuit connection whilst viewing a page,

1. Press .
2. Select **Bookmarks** , then follow the above procedure.

☑ Bookmarks can be Edited or Deleted from the Bookmarks item under the Internet menu options whilst offline or online.

Using bookmarks

Bookmarks can be used:

• directly from standby display:

1. Press . Select **Internet**.
2. Select **Bookmarks** .
3. Select the bookmark name you require to directly connect to the corresponding WAP™ internet site.

• whilst you are browsing the internet:

1. Press to display the options menu.
2. Select **Bookmarks** .
3. Select the bookmark name you require .

☑ 1. Selecting OK directly launches connection to the selected bookmark.

Other site

When this option is selected in the **Internet** menu you can enter a known internet address or Bango address site and then go to this site directly from dial up. However unlike the Bookmark feature, addresses are not stored and must be entered each time this feature is used.

Receiving push messages

A push message is a message sent via a service/WAP™ provider. Push messages can bear promotional or general information (e.g.: weather forecast). To view the related information you need to connect to the WAP™ server.

The push messages are displayed on the mobile and/or stored in the Push Inbox, according to the Push settings. At the end of the transmission the push reception session is ended.

The Push Inbox allows to consult and delete the stored messages but also to launch the connection to related server to retrieve the information.

When the Push Inbox contains new message(s), an information message is displayed in the standby display with a direct access to the inbox.

To set the push reception parameters:

1. Press . Select **Internet**.
2. Select **Settings** .
3. Select **Push preferences** and set the different parameters :

   1/ Accept push info:
   Never: to forbid push messages reception.
   Current profile: to allow only push messages from the current WAP™ profile.
   All profiles: only allows push messages from the configured WAP™ profiles.
   Always: no filtering, allows reception of all push messages.
   2/ Push auto-connection:
   on/off: allows or forbids automatic connection to the WAP™ server on push message reception.
   3/ Push quiet mode:
   on/off: push message information displayed/not displayed on push message reception.
   4/ Accept provisioning:
   see information above about Accept push info. To allow, forbid or filter messages bearing connection details to connect to WAP™ sites.

To consult a push message in the Push inbox:

1. Press . Select **Internet**.
2. Select **Push inbox** . Summaries of all push messages are displayed according to their reception date and time.
3. Press **Options** then select **Read text** to display the selected message text in full screen mode.

The following options may also be available:

Options	Purpose
Read text	To provide access to the message text (possibly on several pages)
Summary	To return to the summary display
Preview	To connect to the service but keep the message in the inbox allowing another access to the same service later
Retrieve	To connect to the service and delete the message from the inbox when the connection to the service is made.
Delete	To delete the item
Delete all	To delete all inbox push messages
Details	To provide the expiry date for this item (if available)

☑ This options list may change according to the push message received.

To view statistics on the push messages:

1. Press . Select **Internet**.
2. Select **Push inbox** .
3. Select **Statistics** to get detailed information on the number of received push messages and the remaining number of messages to be received.

Melodies download

See Melodies download, page 61 for information melody download from WAP™ sites.

Advanced Settings on Internet Profiles

The advanced settings are used to support specific configurations and improved services available on certain WAP™ gateways. This menu is operator dependent and may not be available on your phone. These parametres are displayed as Internet profile items.

To get to the Advanced settings menu:

1. Press . Select **Internet**.
2. Select **Internet profiles** .
3. Select **Options** .
4. Select **View** .
5. Select **Advanced settings** . The following options are available:

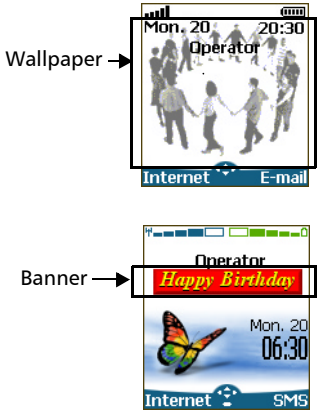
Option	Description
Use SAR	To activate or deactivate the SAR (Segmentation And Reassembly) protocol (to enable the download of large data).
Use download fun	To activate or deactivate the use of the Openwave™ solution (to manage the download of large data).
Use range	To activate or deactivate the range service.
Use encoding version	To display both possible encoding versions. **On** stands for WAP™ 1.2, **Off** stands for WAP™ 1.1.

Customising your mobile

Your mobile allows to set downloaded images or melodies on your mobile. These images can be set as banners or as wallpapers.

Banner and Wallpaper

The banner and wallpaper allow you to configure and personalise your idle screen.



You can download images from Internet web sites, Wap™ and the infrared port. It is then possible to store them and/or set them as a banner or as a wallpaper. Your mobile allows you to set one banner and one wallpaper from the downloaded and/or stored images (to download and store images, see the following sections).

☑ The downloading of images via the infrared port may not be available on your phone. Please check with your operator.

Downloading banners from the Internet web sites or interactive voice servers

Your mobile phone allows easy downloading of images from the Internet or from interactive voice servers in order to set them as banners. To allow the phone to receive images the handset has to be switched on.

☑ Please check with your service provider or contents provider to get a list of the available Internet web sites and interactive voice servers.

Setting an image as a banner

1. Select **Options** (on reception screen) when you have received the image.
2. Select **Install** (or **Discard** if you do not want to install the current image). The banner will then be set on your phone idle screen.

☑ 1. If new events have occured on your mobile (new message, new push message, unanswered call, voice mailbox, inbox), your banner is replaced by the corresponding event icon(s). Your banner is displayed back once you have managed all the events.

2. If new events are stored (new message, new push message, unanswered call, voice mailbox, inbox) the banner is not displayed unless you have activated your own wallpaper.

3. If a banner is received from an internet service and if you choose to set another image as a banner the internet/WAP™ received image is lost as it is not stored in the inbox nor in the Pictures browser.

Downloading images via WAP™ and the infrared port

Images can be received and stored on your mobile.

Downloading images via WAP™

The **Download Pictures** option is only available in the Browser menu if images are available on the current displayed page.

1. When browsing the Internet Press .
2. Select **Download pictures** .
3. From the Viewer page, select the image you want to download(.gif, .jpg, .png, .wbmp).

4. Select **Options**.
5. Select **Store in Inbox**, **Set as wall paper** or **Set as banner**.

Downloading images via the infrared port

1. Open the infrared port (see Infrared port, page 51).
2. Select **Read** (on the idle screen) when the **Inbox** shows you have received a new event.
3. Use ▲ or ▼ to scroll the **Inbox** if it bears several files and go to the desired file.
4. Select **Options**.

☑ 1. In both cases (downloading via WAP™ or via the infrared port), if your inbox is full a message and the icon is displayed on idle mode.
2. To choose and activate a banner or a wallpaper see Pictures Browser, page 46.

Options

The Options list bears the following items:

Option	Description
View	To view the picture in full size.
Set as wallpaper	To set the image as a wallpaper on the idle screen.
Set as banner	To set the image as a banner on the idle screen.
Store	To store the current image.
Delete	To delete the current image.
Delete all	To delete all the Inbox contents.
Details	To show the name and size of the current image.
Send by IrDA	To send the current image via the infrared port.

☑ 1. The sending of images via the infrared port may not be available on your phone. Please check with your operator.
2. Error messages may be displayed when setting, viewing or storing an image:
'File too big': the maximum downloadable image file size is 30Ko.
'Decoding failure': the image cannot be supported by the phone.
3. The sending of images by IrDA may not be possible if the image is copyright protected. The 'File protected!' message is then displayed.

Setting a banner

1. Press . Select **Settings**.
2. Select **Display** .
3. Select **Your banner** .
4. Select **Yes** , then **Save** . **Stored** is displayed. The banner you have downloaded is then set as a banner.

Setting a wallpaper

1. Press . Select **Settings**.
2. Select **Display** .
3. Select **Graphic themes** .
4. Select **Your wall paper** , then **Save** . **Stored** is displayed. The image you have downloaded is then set as a wallpaper.

This does not allow the viewing of the selected images but only to set as the personalised banner or wallpaper. To choose an image from the list of stored images and set it as a banner or a wall paper, see Pictures Browser, page 46.

Melodies download

On top of the usual melodies download by SMS you can download melodies by browsing the Internet.
This is done via the 'Digiplug' or the Nokia Smart Messaging system for Mitsubishi phones. The principle is the following:

- Melodies are stored on a Web/ WAP™ Digiplug server.

- Select your Mitsubishi mobile type to access a choice of melodies.
- Choose one or more melodies to be downloaded to your phone.
- All chosen melodies are downloaded via SMS.
- Once the melody is received a reception screen is displayed. You can then install, play or discard the melody.

Formats managed by the phone are .pmd and .dgp formats.

The melody you have downloaded is stored in the Inbox. The following options are available:

Option	Description
Play	To play the melody.
Install	If there is enough space left, the melody is stored in the imported melodies directory. If there is not enough space left, you are asked to choose which melody to replace among the set of downloaded melodies on the mobile (select **List** to get to the downloaded melodies).
Delete	To delete the selected file.
Delete all	To delete all the files.
Details	To display the Melody name, File name and File size.

Downloaded melodies

To play a downloaded melody from the reception screen:

1. Select **Options**. Select **Play**.
2. Select either **Exit** to stop playing.

To install a donwloaded melody:

Select **Options**. Select **Install**.
If the memory space is sufficient, the melody is automatically stored in the imported melodies directory. If there is no space left choose the melody to be replaced from the set of downloaded melodies (melodies associated to a ring feature cannot be deleted).
Once stored, a message is displayed. The melody can be played and selected via the tones settings menu.

To discard a downloaded melody:

1. Select **Options**.
2. Select **Discard**. The melody is erased and is therefore lost for further installation.

Appendix

Glossary

Expression	Meaning
AC/DC charger	Alternating Current/Direct Current charger
Active call	The call currently in conversation
ALS	Alternate Line (Line 2) Service
AoC	Advise of Charge - subscription service
CB	Cell Broadcast
CLI	Caller Line Identity - displays callers telephone number
Conversation mode	When the phone is making or receiving a call
DES	Data Encryption Standard
Diverting	Diverts incoming calls to the phone to another number
DTC	Desk Top Charger
DTMF	Dual Tone Multifrequency Tones
FDN	Fixed Dialling Number
GSM	Global System for Mobile communications
http	HyperText Transfer Protocol
IN	Information Numbers of your operator
IP	Internet Protocol
LCD	Liquid Crystal Display
MMI	Man Machine Interface
PIN/PIN2	Personal Identification Number. Supplied by your network/service provider
PPP	Point to Point Protocol
PUK/PUK2	PIN Unblocking Key. Used to unlock PIN and PIN2. Supplied by your network/service provider
Roaming (Rm)	The ability to use your telephone on networks different from your home network.
SAR	Segmentation And Reassembly
SDN	Service Dialling Number of your operator or service provider
SIM	Subscriber Identity Module. Supplied by your network/service provider
SMS	Short Message Service
SPN	Service Provider Name
SR	Status Report - relates to SMS messages
Stand by mode	When the phone is on but not receiving/making a call nor menu navigating.
URL	Uniform Resource Locator
WAE	Wireless Application Environment
WAP™	Wireless Application Protocol
WSP	Wireless Session Protocol
WTP	Wireless Transport Protocol

Trouble shooting

Problem	Possible cause and solution
Phone does not switch on	Check that the battery is fully charged and correctly connected to the phone.
No flashing battery icon while charging	There may be no mains supply. Try a different electrical socket. The AC/DC charger may be faulty. Return to your dealer and try substitution with another Mitsubishi adaptor. If faulty contact your dealer.
Short stand by and talk times	Cell broadcast is permanently on, using more battery power. Phone is in a poor signal area and therefore always on full power. Incorrect charging and discharging. Always charge and discharge your battery fully. The battery is wearing out. Replace the battery.
Impossible to dial numbers	Keypad lock is on (appears). Press **Unlock** and # to turn the keypad lock off.
Impossible to make or receive a call	Check at least one signal strength bar ( ) is displayed. Try a stronger signal strength area. If no network name is displayed, check registration and area coverage with your service/network provider and check the SIM is correctly inserted. Call barring option is on. Deactivate it (see page 39). Call cost limit is reached (see page 29).
Stored telephone numbers cannot be recalled	Fixed Dialled Number or Call Barring features are activated. Deactivate feature. (see pages 39).
The mobile is on but nothing is displayed.	Display contrast is down too low. Reset contrast (see page 34).
Battery icon not flashing 1-2-3-4-5 during charging	May indicate a charge or battery problem. Disconnect the charger. Reconnect and try again. May also indicate the battery is full and does not need more charging.
Flashing	There is not enough memory to store another SMS message. You must delete one or more of the existing stored messages (see page 20).
(.....) softkey	Function no longer available in the SIM or was subscription dependent. Reprogram the softkey (see page 12).

Error messages

Problem	Possible cause and solution
Allowed credit reached!	You are trying to place an outgoing call and the allowed credit is already reached. The allowed credit limit is reached during an outgoing call (the call is then aborted).
Busy	You are trying to make a call and the call fails because the destination number is already engaged in conversation.
Call failed	The user is unreachable. The outgoing call fails due to: the network cannot take the call due to system busy or the number is out of order or the number is unreachable or the network does not answer or the option to hide your phone number when calling is not supported by the network Control the ability to hide your ID when making a call (service availability in network).
Cancelled. No type selected	Cell broadcast activation has been requested but no message type has been selected.
Cannot execute command	You have made a request which is impossible to be executed in the current call situation.
Can't display message	The short message text cannot be displayed (characters not recognised, incorrect format etc.)
Check SIM!	There is no SIM present or the SIM is incorrectly inserted.
Check your password	You changed the call barring password or You changed the call barring service status. The entered password seems to be wrong or incorrect.
Check your request	You made a request for a service that seems to be impossible to fulfil.
Check your subscription	You tried to activate a GSM service. You are requested to check your subscription regarding the related service rights of use/access.
Error!	The network cannot perform your request and generates an error result.
Failed	An SMS sending process failed (the short message cannot be sent).
Incorrect entry	You entered a character string with a syntax error.

Problem	Possible cause and solution
Invalid number	You tried to make a call and the call is rejected by the network because the network does not recognise the phone number structure or you tried to store a phone number that is too long to be stored in the selected location or you tried to move a phone entry to a location that is unable to receive the phone number (phone number too long)
Keypad locked "Unlock" # to unlock	A press on any key is made with keypad locked.
Low battery!	This text appears when the battery becomes too low and the mobile soon switches off automatically.
Network busy	You tried to make a call. The call is rejected by the network due to congestion problems.
Network not allowed	When selecting network manual search, you have selected a network that rejects the connection.
New PIN incorrect. Try again	Changing PIN: the new PIN code values differ (value control).
New PIN2 incorrect. Try again	Changing PIN2: the new PIN2 code values differ (value control).

Problem	Possible cause and solution
No action performed	When a copy/move operation is made on memories but no conditions have been changed (same memory, number and name).
No response	You made a call to a remote user and no response has been received.
Not allowed	Your number/character entry is not allowed.
Not allowed (fixed dialling)	A call is tried, but cancelled due to fixed dialling control (the number dialled does not match with one of the fixed dialling numbers in memory).
Not Available	There is no more SIM storage.
Number changed	The called number has changed.
PIN blocked	A wrong PIN code has been entered 3 times.
PIN2 blocked	A wrong PIN2 code has been entered 3 times.
PUK2 blocked	A wrong PUK2 code has been entered 10 times. The SIM services protected by the PIN2 code have now been permanently disabled.
Ring volume Off	The ring volume is set to 0 (no volume)
Reaching allowed credit!	The cost limit is about to be reached. The connected call ends automatically when the limit is reached.

Problem	Possible cause and solution
Service not available	Activating some GSM services that are not available on the network
SIM blocked. Contact provider	A wrong PUK has been entered 10 times. The SIM card has been permanently disabled and needs to be replaced by a new one.
SIM blocked. Enter PUK:	A wrong PIN code has been entered 3 times. Enter the PUK code to unblock the SIM card.
SIM fixed full SIM names full Phone names full	The corresponding memory is full.
SMS memory locations are full	The storage of new messages (when writing a new SMS) is impossible.
Wrong code. Try again	A wrong phone lock code has been entered.
Wrong new code. Try again	The new phone lock codes do not match (value control).
Wrong PIN, try again Wrong PIN2, try again Wrong PUK, try again Wrong PUK2, try again	The wrong code has been entered.
Message not sent	The handset may be out of the network range or the network is temporarily overloaded.

Problem	Possible cause and solution
Internal fault	An unrecoverable error has occurred. Switch the handset off and back on again.
Invalid Service Menu	An invalid service menu has been sent to the handset. The invalid service menu is ignored, no further action necessary.
Registration required	You have not registered to any service. Go to the Service registration menu.
Menu limit reached	A new service menu item has been received but the remaining storage space is not sufficient to store it. Delete one or more registered menu items (My Services menu) and accept the new menu or discard the new menu.
Server limit reached	A new service has been received but the remaining storage space is not sufficient to store it. Delete one or more registered service(s) - Settings menu - and accept the new service or discard the new service.

Guarantee

Pan European Service

Should you experience any difficulty then please contact your nearest MITSUBISHI location listed below for information on other service centres.

UNITED KINGDOM Tel: (0800) 912 00 20	ESPAÑA Tel: (902) 11 68 58
FRANCE Tel: (0825) 86 82 83	ITALIA Tel: (800) 27 59 02
DEUTSCHLAND Tel: (01803) 33 71 84	IRELAND Tel: (1800) 92 70 12
BELGIUM Tel: (0800) 75733	SWITZERLAND Tel: 032 843 65 11
AUSTRIA Tel: (0800) 292716	FINLAND Tel: (0800) 116 975
PORTUGAL Tel: (0800) 880 264	SWEDEN Tel: (0200) 214 715

THE NETHERLANDS
Tel: (0800) 0223825

To obtain Warranty Service, you will require your original equipment purchase invoice or irrefutable proof of purchase. Please see warranty terms and conditions for in warranty service.

Pan-european GSM End-user Guarantee Conditions

1. You can benefit from this guarantee only if you are the original end-user purchaser.
2. MITSUBISHI guarantees that for a period of twelve (12) months from the date of purchase from your dealer, the Product shall be free from defects in materials and workmanship. Subject to the conditions below, Mitsubishi will indemnify you against all cost of parts and labour for repairs to or replacement of the product or parts (which may include equipment of similar type) where conducted by an authorised MITSUBISHI GSM service centre. MITSUBISHI shall be entitled to retain product which has been replaced.
3. Any claims must be made to an authorised MITSUBISHI GSM service centre in the countries mentioned in the service card enclosed with the product. In case of difficulty you can contact the Mitsubishi companies listed in the service card to obtain details of your nearest authorised MITSUBISHI GSM service centre. As a condition of this guarantee, the date of your purchase must be confirmed by producing your original invoice from your supplier or your sales receipt, showing the serial number, together with the service card. Final determination of guarantee claim eligibility shall be made by MITSUBISHI. MITSUBISHI shall not be liable for shipment costs to and from an authorised GSM MITSUBISHI service centre; the product travels at your risk.
4. This guarantee does not cover:
   a) battery defects of any nature;
   b) non-compliance with directions for use;
   c) installation or removal charges where the product is installed in a vehicle;
   d) defects or failures caused by accident, misuse, improper installation or improper repair by an unauthorized repairer, alteration or modification, neglect, failure to use for normal purpose, Acts of God, water ingress, use in adverse environmental conditions (humidity or temperature);
   e) cost of or performance of modifications to product to adapt or adjust to conform to national or local safety laws, where such safety laws go beyond harmonised European Union standards;
   f) loss of use of the product or consequential loss of any nature;
   g) loss of use of air-time, loss of use of any loaned equipment or ancillary equipment;
   h) provision of incorrect or insufficient signal on air-time network, upgrading of product software to changes in network operating parameters, mains supply voltage fluctuations, incorrect SIM card (memory card) parameters for connection to airtime retailer;
   i) damage caused by non-MITSUBISHI accessories.
5. Any guarantee claim or service does not extend the original guarantee period unless so required by prevailing national law.
6. This guarantee is valid only if the product is purchased and used in the European Union, Norway, Iceland or Switzerland.

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Mitsubishi Electric Telecom Europe S.A.
25 Boulevard des Bouvets
F92741 Nanterre - Cedex
France

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DECLARATION OF COMPLIANCE

Name	: **Mitsubishi Electric Telecom Europe S.A.**
	RCS Nanterre B 307 593 129
Address	: **25, boulevard des Bouvets**
Town	: **Nanterre Cedex**
Postal code	: **92741**

Identification of the product

Nature	: **Mobile Cell Telephone**
Type	: **Dual band GSM 900/DCS 1800**
Sales reference	: **MT-560**
Other information	:

Identification of the notified organization

Name	: **Autorité de Régulation des Télécommunications (ART)**
Identification number	: **0165**
Procedure followed	: **Annex III of the directive 1999/5/CE**

Declares under its entire responsibility that the product described above complies with the following basic applicable requirements (and in particular those in the 1999/5/CE directive):

Article 3.1a: (health protection and user safety)
73/23/CEE, Cenelec EN 50361, EN 60950

Article 3.1b: (protection requirements concerning electromagnetic compatibility)
89/336/CEE, EN 301 489-1, EN 301 489-7

Article 3.2: (proper use of the radio-electric spectrum so as to avoid damaging interference)
EN 301 511

To this effect, declares that all the radio test series have been carried out.

6th of May 2002,

Viet Mailam
Managing Director